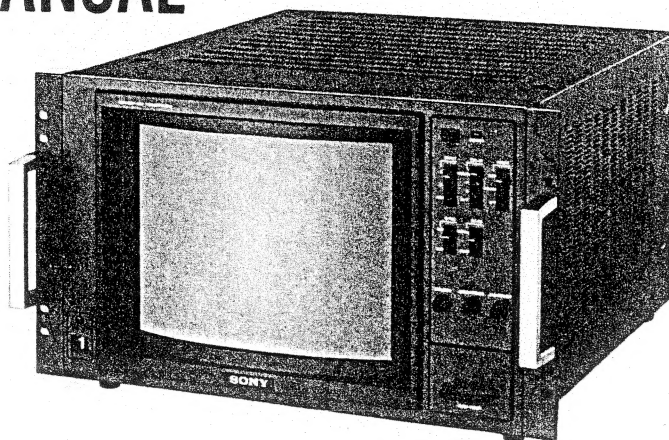


# PVM-1320P

## SERVICE MANUAL

Chassis No. SCC-3634



July, 1981


## SPECIFICATIONS

Television system	CCIR standards B, G and H
Colour system	PAL colour system
Picture tube	Trinitron tube, 33 cm (31 cm measured diagonally) 90 degree deflection
Video input	noncomposite: 0.7 V (p-p), unbalanced Composite: 0.5 - 2.0 V (p-p), sync negative
Sync input	1.0 - 8.0 V (p-p), nominally 4.0 V (p-p) negative
Video/sync input impedance	High impedance for loop-through; 75 $\Omega$ terminated
Power requirements	220 or 240 V ac ~ adjustable, 50/60 Hz
Power consumption	100 W

Dimensions	480 x 284 x 512 mm (w/h/d) (19 x 11 $\frac{1}{4}$ x 20 $\frac{1}{4}$ inches)
Weight	Approx. 25 kg (55 lb 2 oz)
Supplied accessories	Number plates (5) 4-pin connectors (2)

While the information given is true at the time of printing, small production changes in the course of our company's policy of improvement through research and design might not necessarily be indicated in the specifications. We would ask you to check with your appointed Sony dealer if clarification on any point is required.

### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.



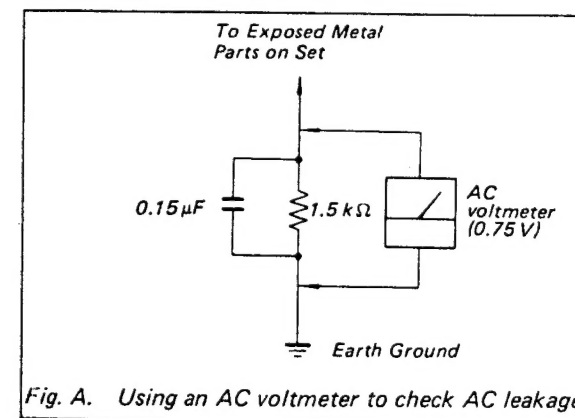
TRINITRON<sup>®</sup>  
COLOUR VIDEO MONITOR  
**SONY**<sup>®</sup>

MON

## SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any).  
Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.



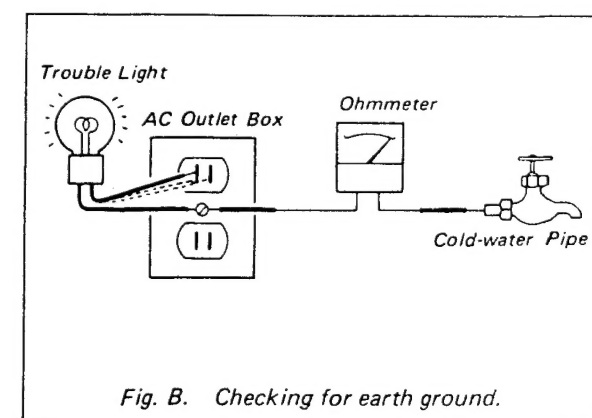
## LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

## HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)



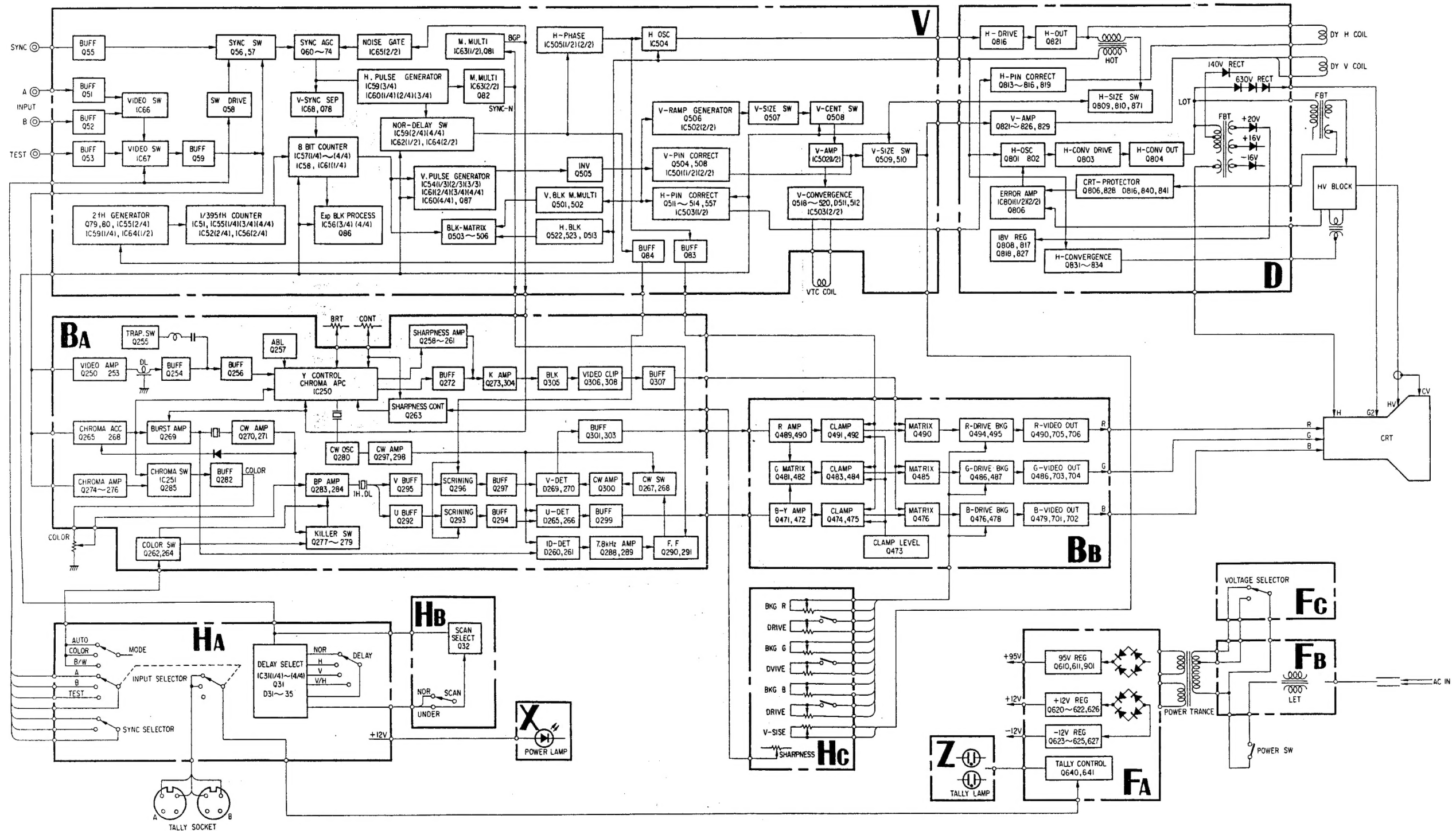
# SECTION 1 OUTLINE

## 1-1. BLOCK DIAGRAM

SCC-363A-A

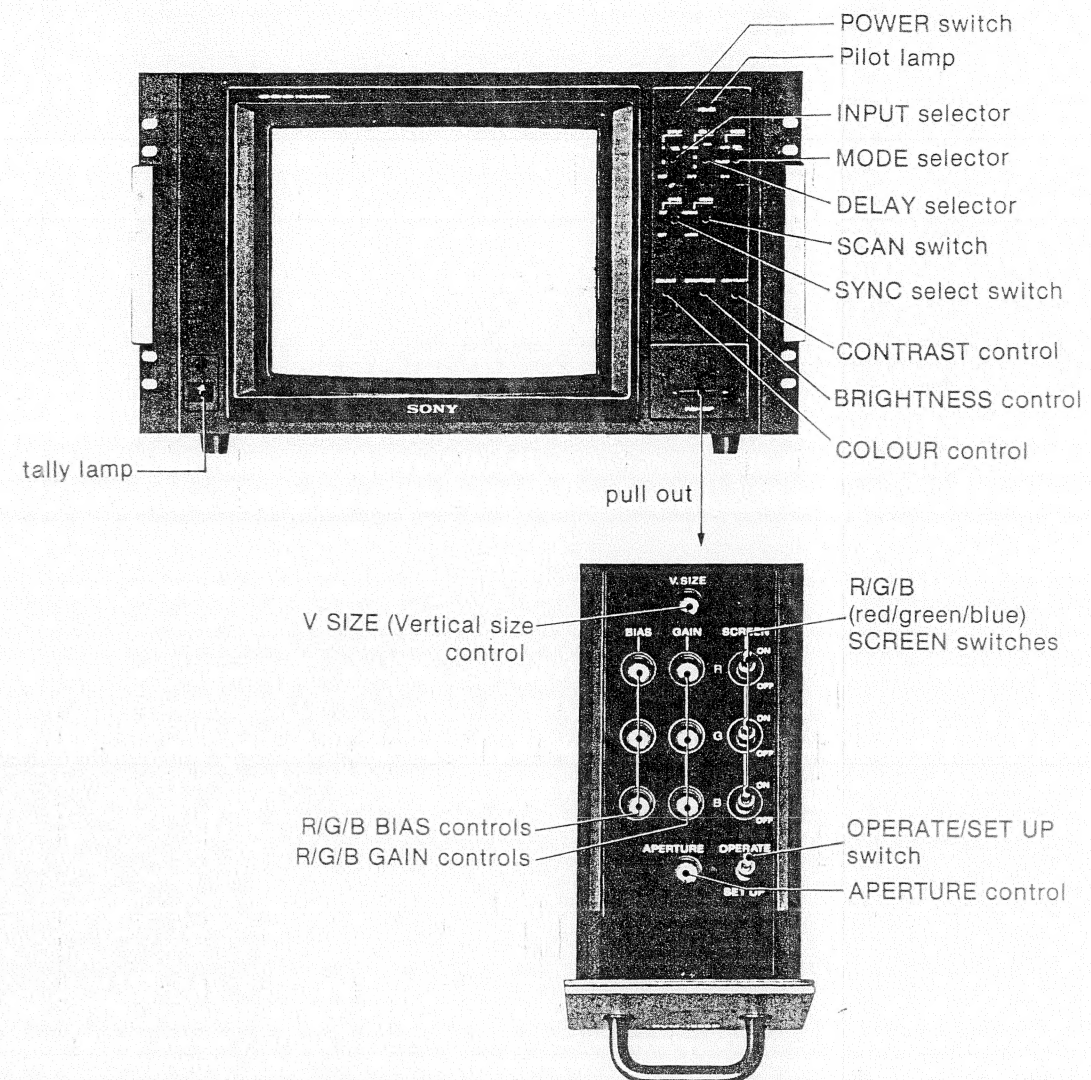
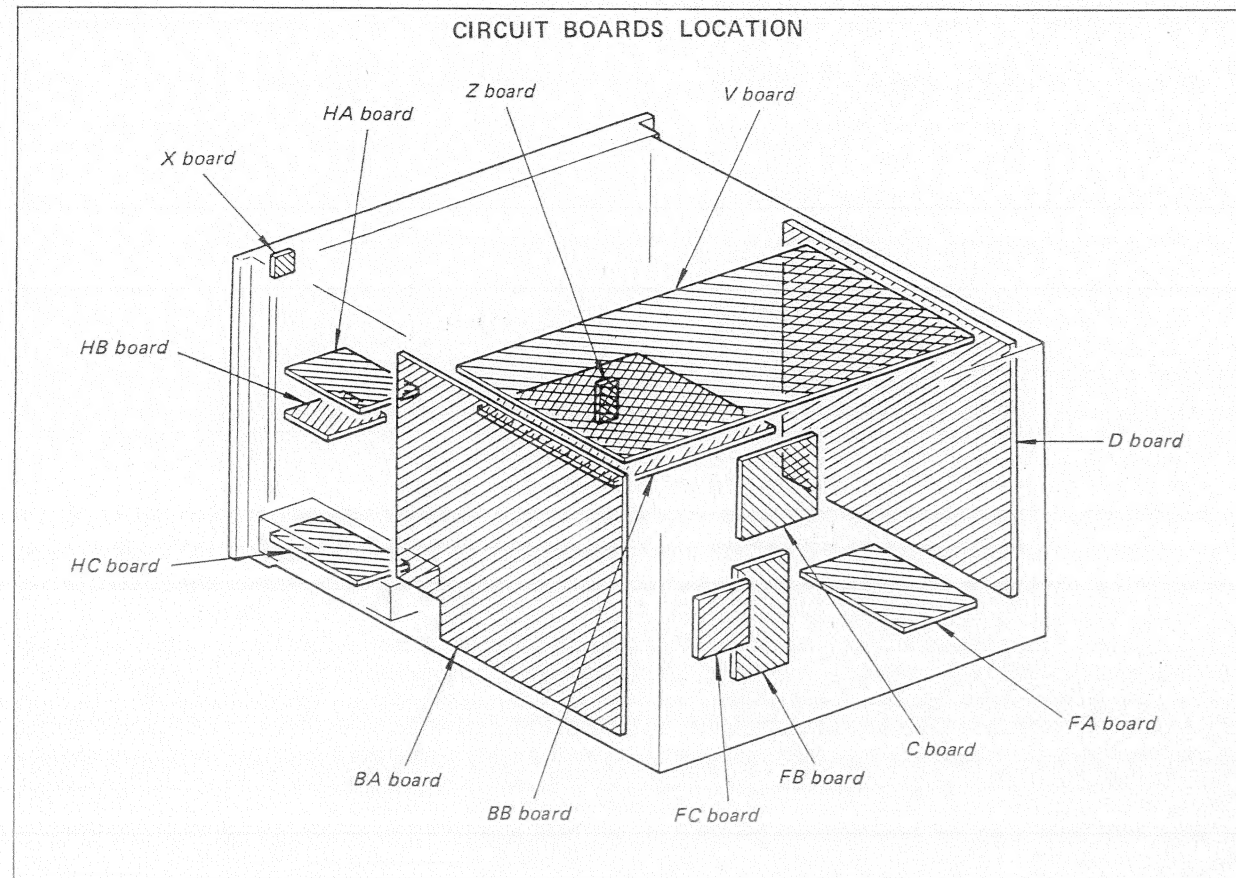
PVM-1320P PVM-1320P

SCC-363A-A





## LOCATION AND FUNCTION OF CONTROLS AND CONNECTORS



### POWER switch and pilot lamp

To turn the monitor on, depress the POWER switch; the associated pilot lamp will light. To turn the monitor off, depress the button again.

### INPUT SELECT buttons

**A:** for monitoring the picture connected to the VIDEO A IN connector.

**B:** for monitoring the picture connected to the VIDEO B IN connector.

**TEST:** for monitoring the picture connected to the TEST connector.

### MODE selector

**AUTO:** the presence of burst activates the colour circuits; absence of burst deactivates colour circuits.

**COLOUR:** colour circuits are activated regardless of the presence or absence of burst.

**B/W:** colour circuits are deactivated; the picture will be displayed in black and white.

### DELAY selector

#### NORMAL

**H:** picture is shifted horizontally, and the horizontal sync is displayed in left approximately one-fourth of screen. Picture brightness is automatically increased.

**V:** picture is shifted vertically, and the vertical sync is displayed near the centre of screen. Picture is expanded by approximately 5 times, unless the underscan is activated.

**H/V:** picture is shifted horizontally and vertically (cross-pulse).

### SCAN select switch

Selects the normal scanning or under scanning. Under scanning reduces display size by about 10%.

When this switch is set to **UNDERSCAN**, vertical sync expansion is cancelled.

### SYNC select switch

**EXT:** when an external pulse is supplied from an external sync generator, with either composite or non-composite video signal.

**INT:** when composite video is supplied without external sync.

### CONTRAST control \*

Adjusts the picture contrast.



**BRIGHTNESS control\***

Adjusts the picture brightness.

**COLOUR control\***

Adjusts the colour intensity of the picture. Clockwise rotation makes the picture vivid; anticlockwise rotation makes it pale.

\*The CONTRAST, BRIGHTNESS, COLOUR controls are recommended to be set nearly at their centre positions normally.

**V SIZE control**

Adjusts the picture height gains in the normal or underscanned picture respectively.

**R/G/B SCREEN switches**

These switches allow the appropriate beam to be turned on or off.

**R/G/B BIAS controls**

These controls provide screen adjustment for low-light colour temperature.

**R/G/B GAIN controls**

These controls provide screen adjustment for high-light colour temperature.

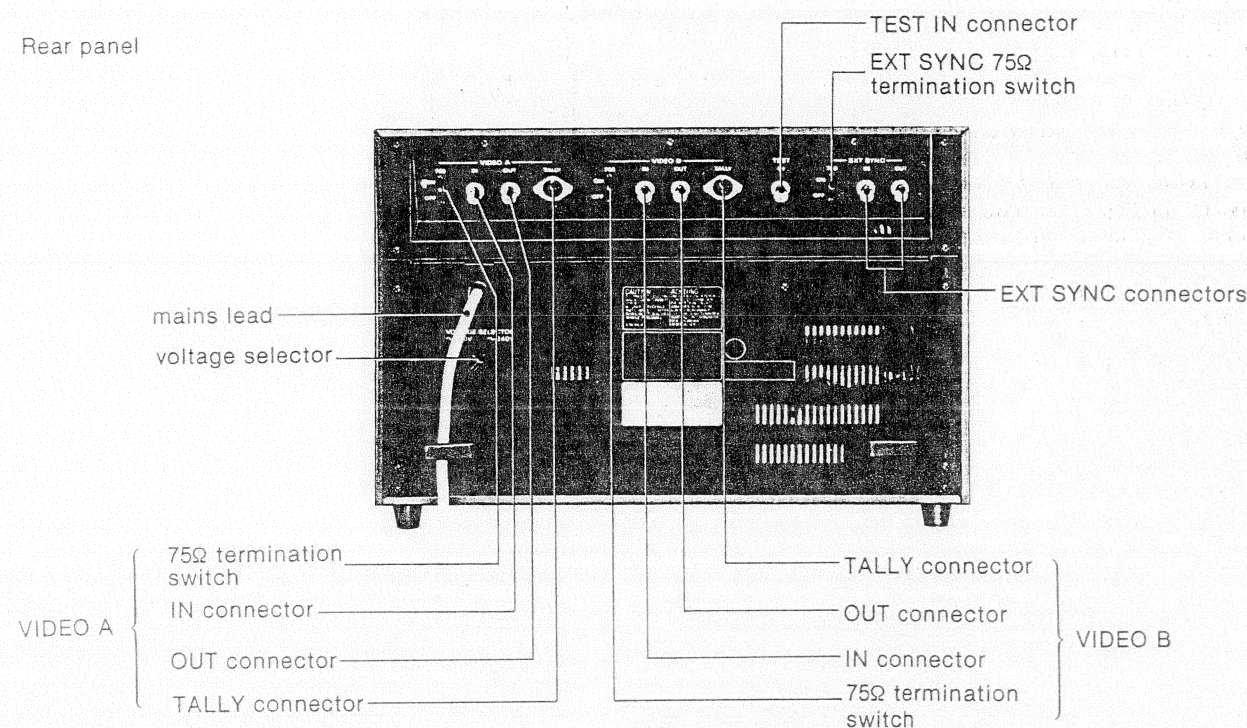
**OPERATE/SETUP switch**

Normally, set this switch to OPERATE.

When this switch is set to SETUP, a horizontal white bar is displayed on the screen for adjusting the low-level white balance.

**APERTURE control**

Adjusts the frequency response.



**VIDEO A/VIDEO B**

**IN connectors**

Connect to the video output of a video tape recorder or another monitor (for loop through connection), or to a colour camera.

**OUT connectors**

Connect the video input of another monitor or a video tape recorder.

**75Ω termination switches**

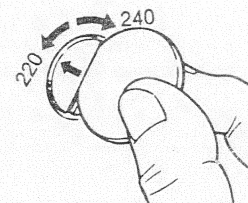
When the monitor is used singly, or is the last of looped chain, set the switch to ON. When another monitor is connected to the OUT connector, set the switch to OFF.

**TALLY connectors**

Connect to the tally output of the video console, special-effects generator, etc. Then the tally light feature of this monitor is utilized, and the tally lamp at the front will be turned on or off by the connected console or special-effects generator.

**VOLTAGE selector**

Selects the operating house current voltage, 220 V or 240 V ac.



**EXT SYNC 75Ω termination switch**

When an equipment is connected to the EXT SYNC OUT connector, set the switch to OFF. When not connected set to ON.

**EXT SYNC connectors**

Connect an external sync generator to the EXT SYNC IN connector. The OUT connector supplies the external sync signal from the external sync generator connected to the IN connector.

**TEST IN connector**

Connect the test signal.

## SET UP

### Scan Selection

Normal scanning or underscanning is achieved by the proper selection of the SCAN switch. Underscanning reduces display size by about 10%.

Delayed scanning is accomplished by the setting of the DELAY selector. When scanning is delayed vertically, horizontally or vertically and horizontally (cross-pulse), picture brightness is simultaneously increased for easier observation. Vertical scanning is expanded 5X to permit close inspection of the vertical interval.

### White balance

- ① Connect a monoscope test signal and select the appropriate input.
- ② Turn on all R, G, B screen switches.
- ③ Set the BRIGHTNESS control to the mechanical centre and turn the CONTRAST control clockwise.
- ④ Adjust all R, G, B GAIN and BIAS controls to mechanical centre with a screwdriver.
- ⑤ To adjust low-level white balance, set the OPERATE/SETUP switch to SETUP to display a horizontal white line on the screen.
- ⑥ Adjust the R, G, B BIAS controls to obtain optimum white balance at 20 lux.
- ⑦ To adjust high-level white balance, set the OPERATE/SET UP switch to OPERATE.
- ⑧ Set the G GAIN control to the mechanical centre.
- ⑨ Observe the white portion of the screen and adjust the R, B GAIN controls for optimum white balance.

Confirm that optimum white is obtained at low-level to achieve proper tracking.

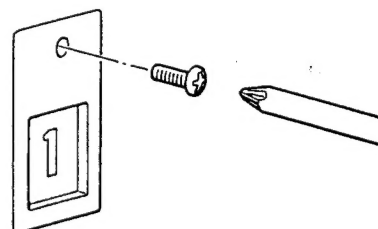
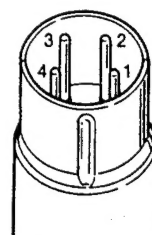
Repeat steps ⑤ - ⑨ if necessary.

### Tally light

When the tally-light feature of this monitor is to be utilized, connect the TALLY connectors of the monitor to a console, special-effects generator, etc. with the No. 1 and 4 pins short-circuited. The tally lamp at the front is interlocked by the INPUT selector and will be turned on or off by the console or special-effects generator.

Remove the screw, replace the plastic number plate supplied and fasten with the original screw.

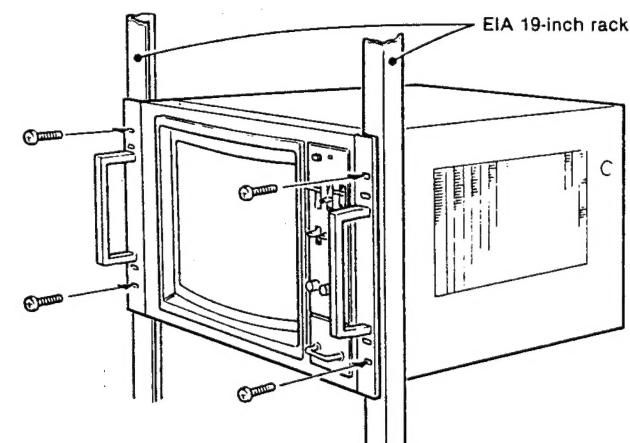
Pin connections  
1 . . . Hot  
4 . . . Ground



## INSTALLATION

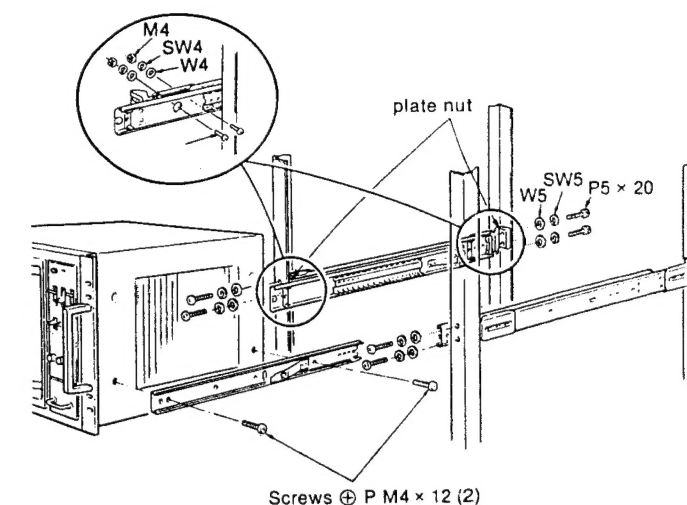
Be sure that the mains lead is disconnected from the mains outlet.

### RACK MOUNTING

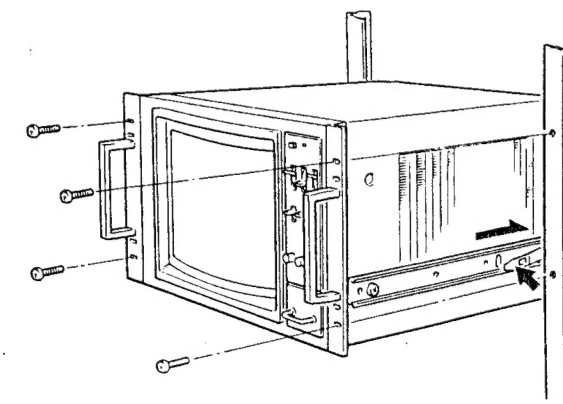


Mount the monitor to the 19-inch EIA standard rack and secure with four 5 × 16 machine screws.

### SLIDE RAIL MOUNTING (optional)



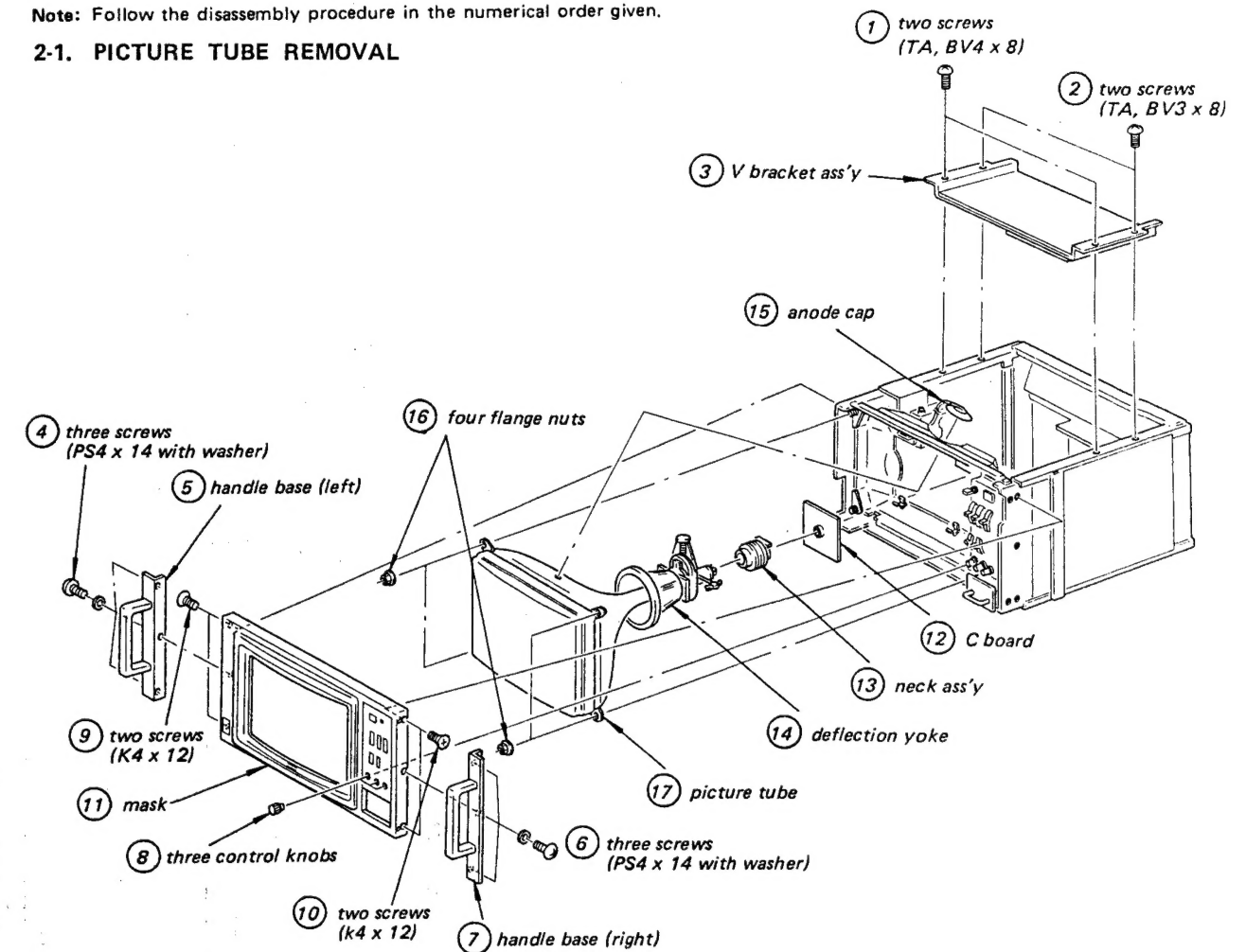
Length of the fully extended rails is approximately 520 mm (20 1/2 inches).



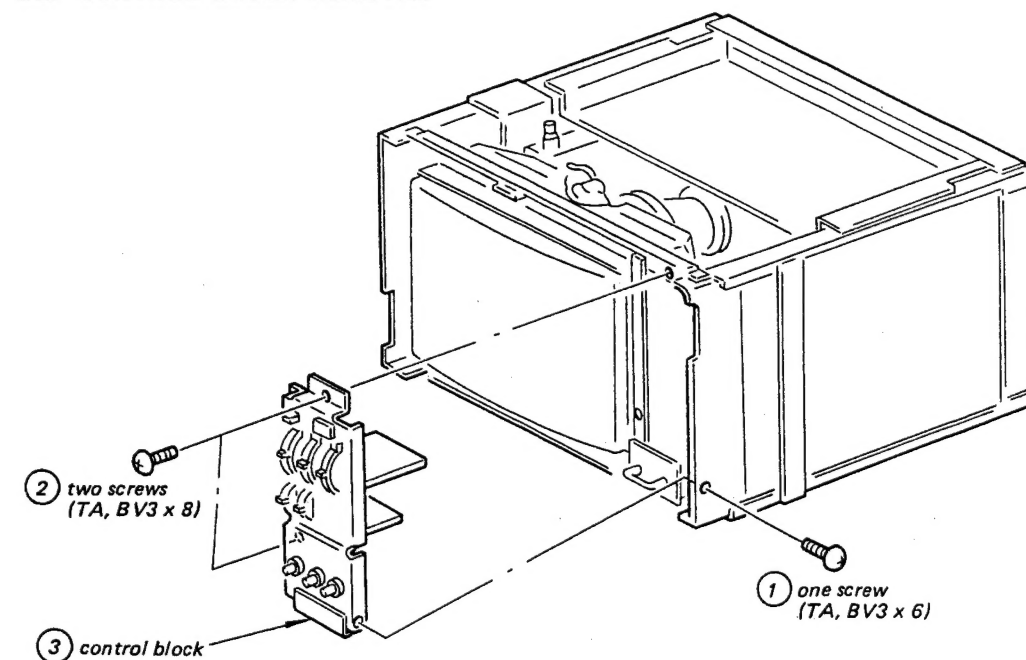
## SECTION 2 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

### 2-1. PICTURE TUBE REMOVAL

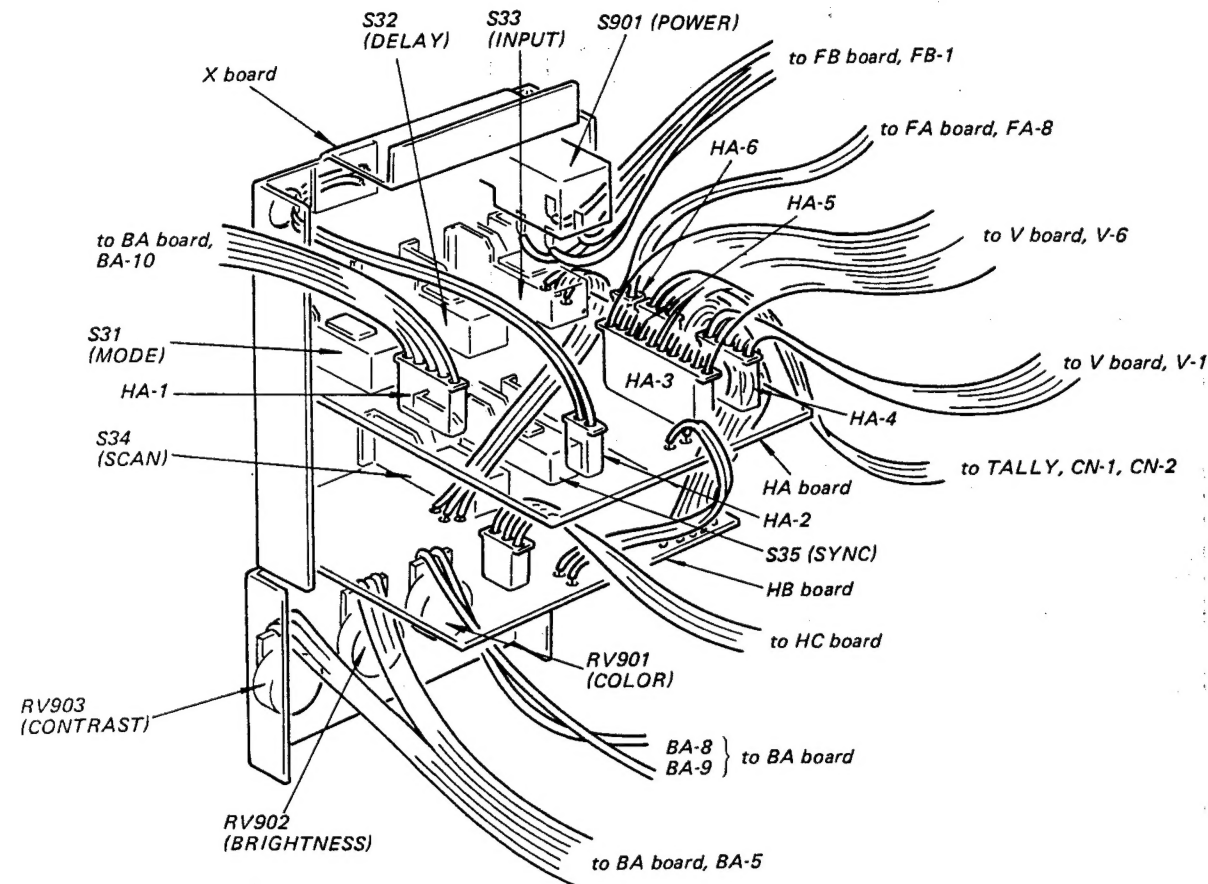


### 2-2. CONTROL BLOCK REMOVAL

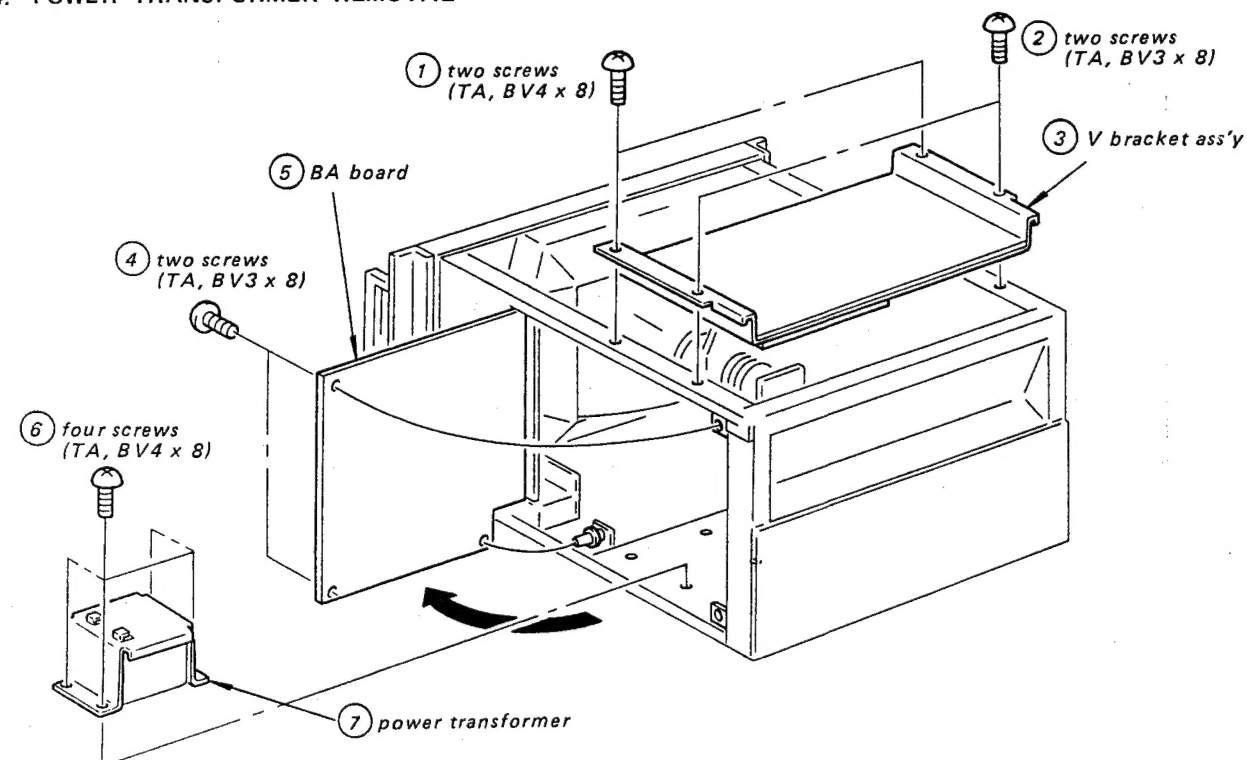




## 2-3. WIRING DIAGRAM ON CONTROL PANEL

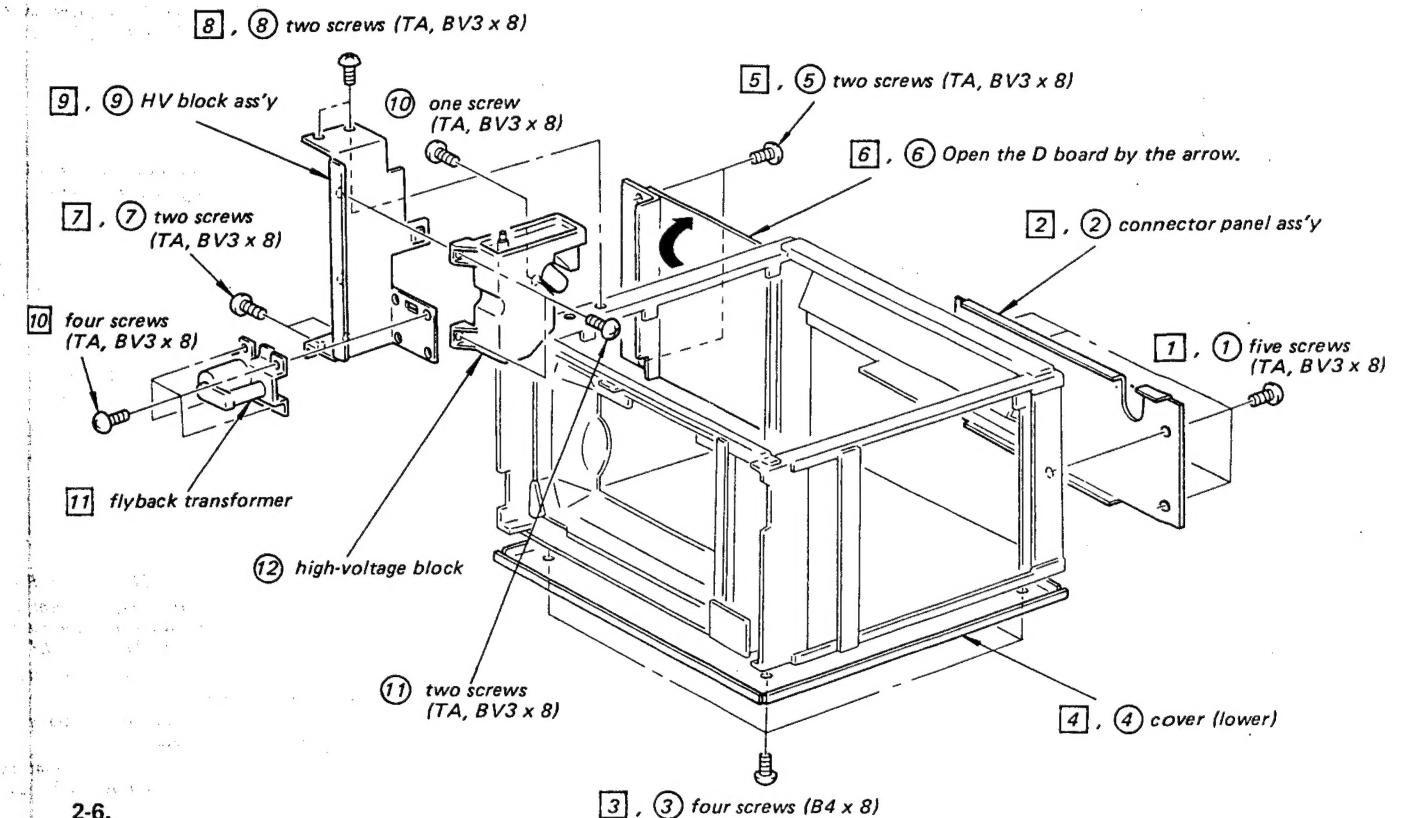


## 2-4. POWER TRANSFORMER REMOVAL



## 2-5. HIGH-VOLTAGE BLOCK FLYBACK TRANSFORMER REMOVAL

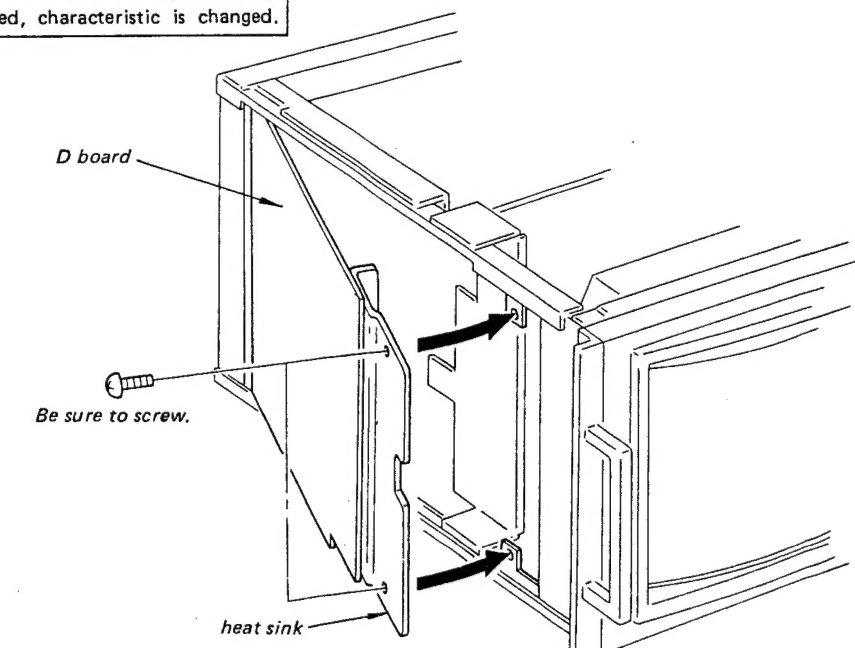
Note: High-voltage block: Remove the parts indicated by ○ in numerical order (1 - 12).  
Flyback transformer: Remove the parts indicated by □ in numerical order (1 - 11).



## 2-6.

### CAUTION

Be sure to perform that heat sink of D board is screwed to chassis before power switch is turned on. If not, earth loop of deflection circuit is changed, characteristic is changed.





# SECTION 3 ADJUSTMENTS

SCC-363A-A

PVM-1 320P

PVM-1 320P

SCC-363A-A

## Note:

### (1) TEST EQUIPMENT REQUIRED

1. Oscilloscope
2. Dual-trace oscilloscope
3. Voltmeter (VOM)
4. Color-bar/pattern generator
5. Video tuner SONY Model "VTU-200" or equivalent
6. Digital multimeter
7. High tension meter.

### (2) INPUT SIGNAL

When making these adjustments, feed a crosshatch, color-bar or monoscope pattern, signal to VIDEO IN/OUT connector through video tuner.

### (3) CONTROL AND SWITCH SETTINGS

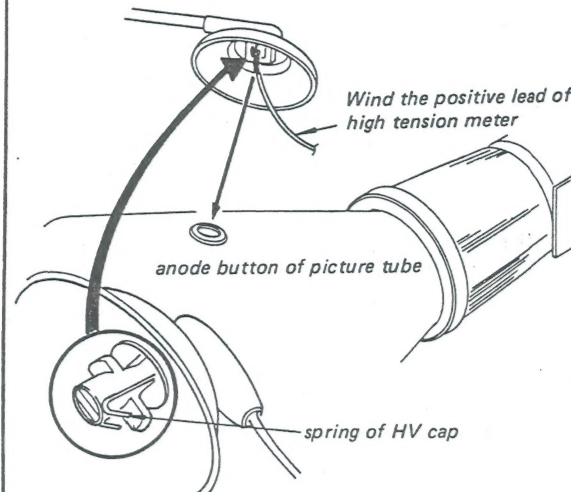
Controls and switches should set as follows when making adjustments unless otherwise noted.

CONTR control	} . . Set for best picture
BRT control	
COLOR control	
V.HOLD control	. . Set for stable picture
MODE switch	. . . AUTO
SCAN switch	. . . . . NORMAL

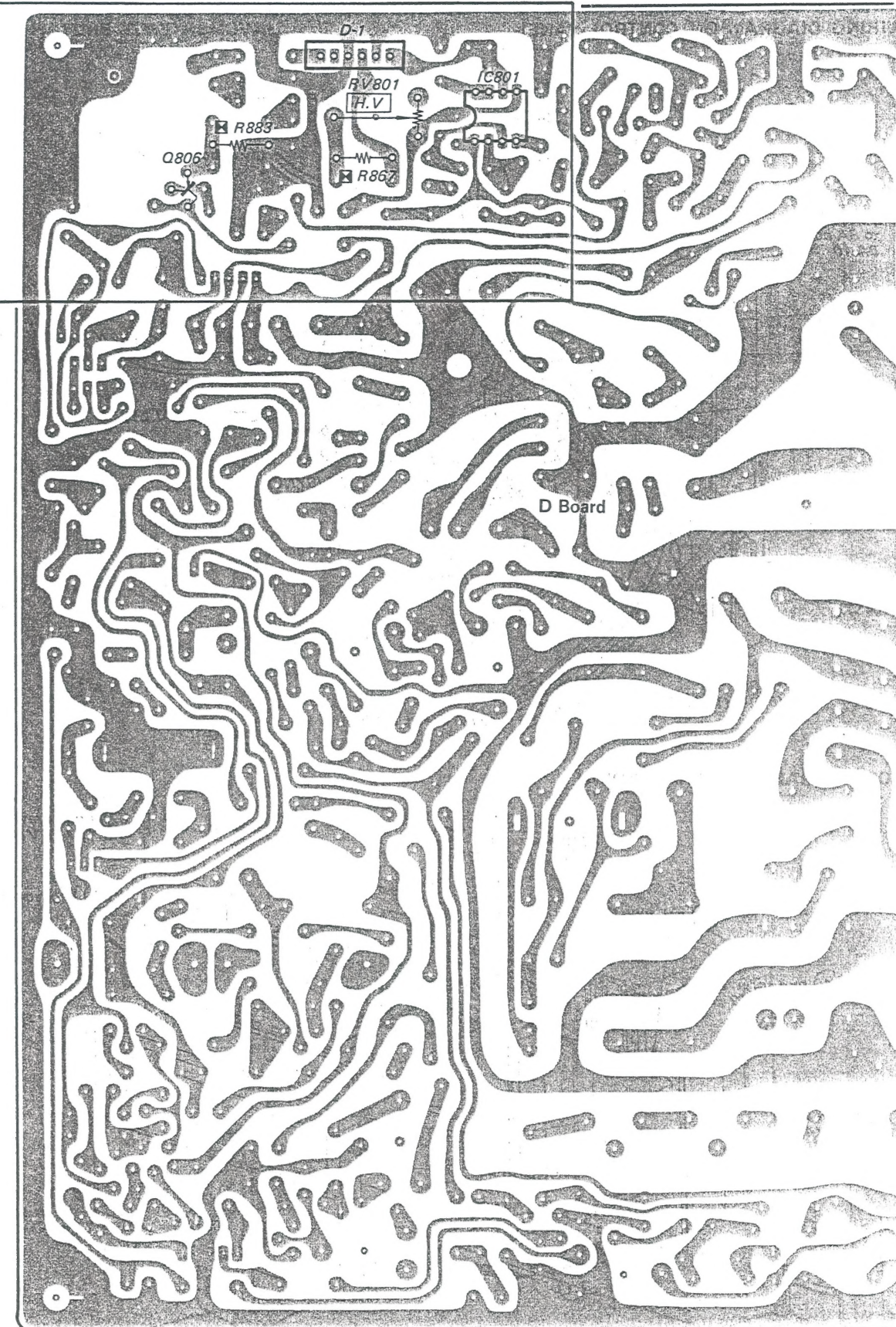
### ■ R883 and R867 ADJUSTMENT

When replacing the following components, make this adjustment.  
Q806 · D816 · D840 · D841 · R867 · R881 · R882 · R883 · RV801, HV BLOCK (Identified by ■ mark)

- 1) Connect the positive lead of the high tension meter to the spring of HV Cap, and the negative lead to the braided wire connected to the picture tube earth spring.



- 2) Connect a temporary resistor (1 k $\Omega$ ) for R867.
- 3) Turn the variable resistor RV801, confirm that the Hold down circuit operates when the reading of the high tension meter is 21.2 – 23.7 kV.
- 4) If steps 1 to 3 are not satisfied, select the resistance value of R883 and repeat above steps.
- 5) Turn the variable resistor RV801 for maximum voltage on the high tension meter.
- 6) Select the resistance value of R867 so that the reading of the high tension meter is 20.2 – 21.0 kV.
- 7) After the adjustment, turn the variable resistor RV801 for 20 kV on the high tension meter.





# SECTION 4 DIAGRAMS

## 4-1. FRAME SCHEMATIC DIAGRAM

A

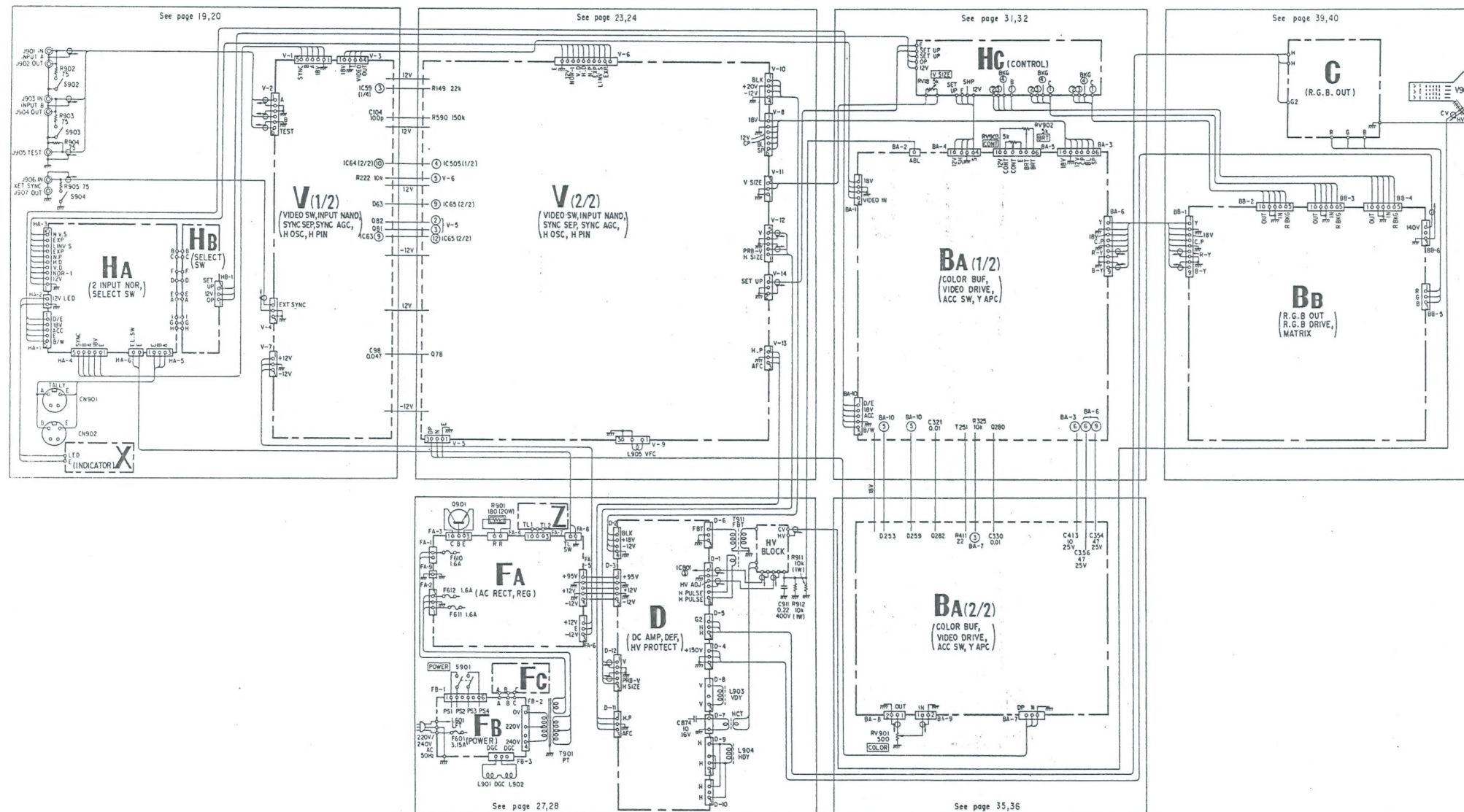
B

C

D

E

F



## 4-2. MOUNTING AND SCHEMATIC DIAGRAMS

### Note on Schematic Diagram:

- All capacitors are in  $\mu F$  unless otherwise noted.  $pF = \mu\mu F$
- All resistors are in ohms,  $\frac{1}{4} W$  unless otherwise noted.  $k\Omega : 1000 \Omega$ ,  $M\Omega : 1000 k\Omega$
- $\square$  : nonflammable resistor.
- $\triangle$  : internal component.
- $\square$  : panel designation.
- The components identified by  $\square$  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by  $\square$ , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by  $\square$  and repeat the adjustment until the specified value is achieved. (Refer to R883 and R867 adjustment on page 13 and 14).

Part replaced ( $\square$ )	Adjustment ( $\square$ )
Q806, D816, D840 D841, R867, R881 R882, R883, RV801 HV BLOCK	R883 and R867 adjustments

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10  $M\Omega$  digital multimeter.
- Voltage variations may be noted due to normal production tolerances.
- Voltages are taken with the MODE switch set at AUTO position.
- No parentheses: common value.

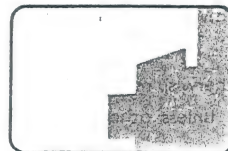
	SCAN Sw.	DELAY Sw.
< > :	ON	NORMAL
<< >> :	ON	H
( ) :	ON	V
(( )) :	ON	H/V
[ ] :	OFF	NORMAL
[[ ]] :	OFF	H
< > :	OFF	V
[ ] :	OFF	H/V

- $\square$  : adjustment for repair.
- Readings are taken with a color-bar signal input.
- Switch

Ref. No.	Description	Position
S11	SCREEN R	ON
S12	SCREEN G	ON
S13	SCREEN B	ON
S14	OPERATE/SET UP	OPERATE
S31	MODE	AUTO
S32	DELAY	NORMAL
S33	INPUT	CH-A
S34	SCAN	ON
S35	SYNC	INT
S601	VOLTAGE SELECT	220 V
S901	POWER	ON
S902	CH-A 75 $\Omega$	OFF
S903	CH-B 75 $\Omega$	OFF
S904	EXT SYNC 75 $\Omega$	OFF

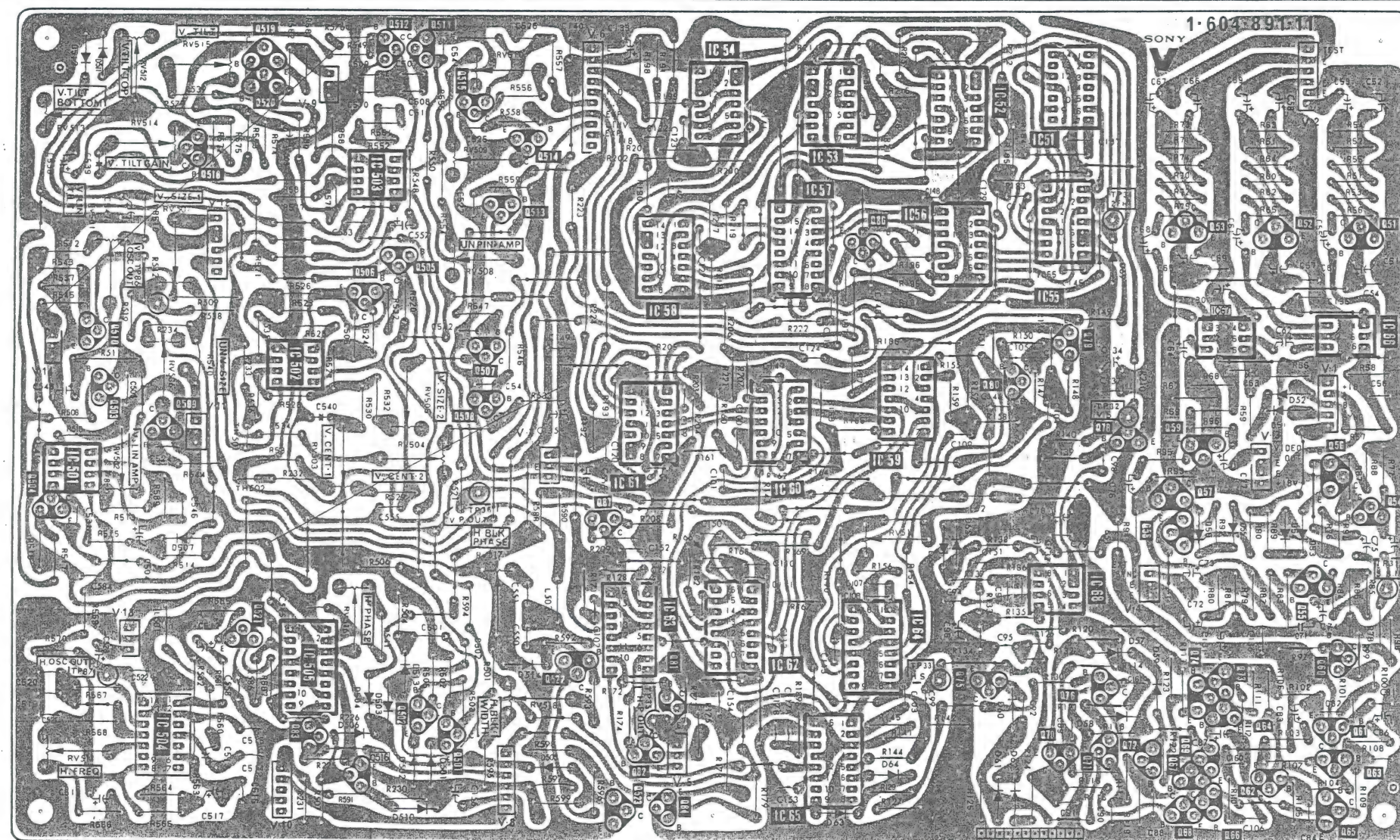


A B C D E F G

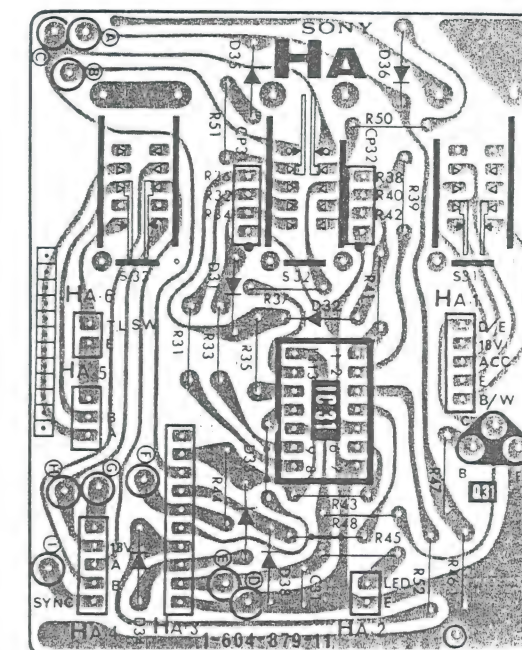


— V<sub>1/2</sub> Board —

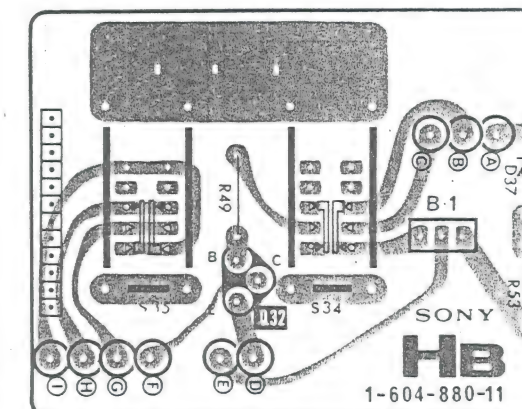
Q	IC	504	510	518	519	IC502	512	511	515	513	514	IC58	IC54	IC53	IC52	IC51	IC55	53	59	73	52	51	Q	IC
		IC501	IC503	IC509	IC520	IC505	IC506	IC505	IC507	IC508	IC508	IC522	IC523	IC523	IC523	IC523	IC523	IC523	IC523	IC523	IC523	IC523	IC523	IC
D		512	511	507	504	513	502	501	514	505		63	64	66	65	60	69	57	58	59	56	55	54	D
ADJ		RV513	RV501	RV512	RV507	RV515	RV503	RV516	RV505	RV504	RV509	RV510	RV518	RV508	RV517	RV51								ADJ



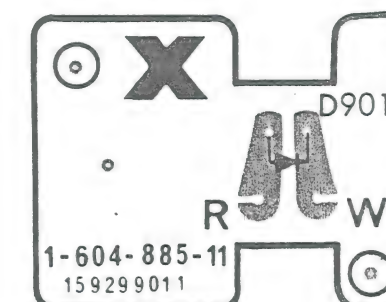
— HA Board —



— HB Board —



— X Board —





V<sup>1/2</sup>

VIDEO SW, INPUT NAND  
SYNC SEP, SYNC AGC,  
H OSC, H PIN

HA

2 INPUT NOR,  
SELECT SW

HB

(SELECT SW)

X

(INDICATOR)

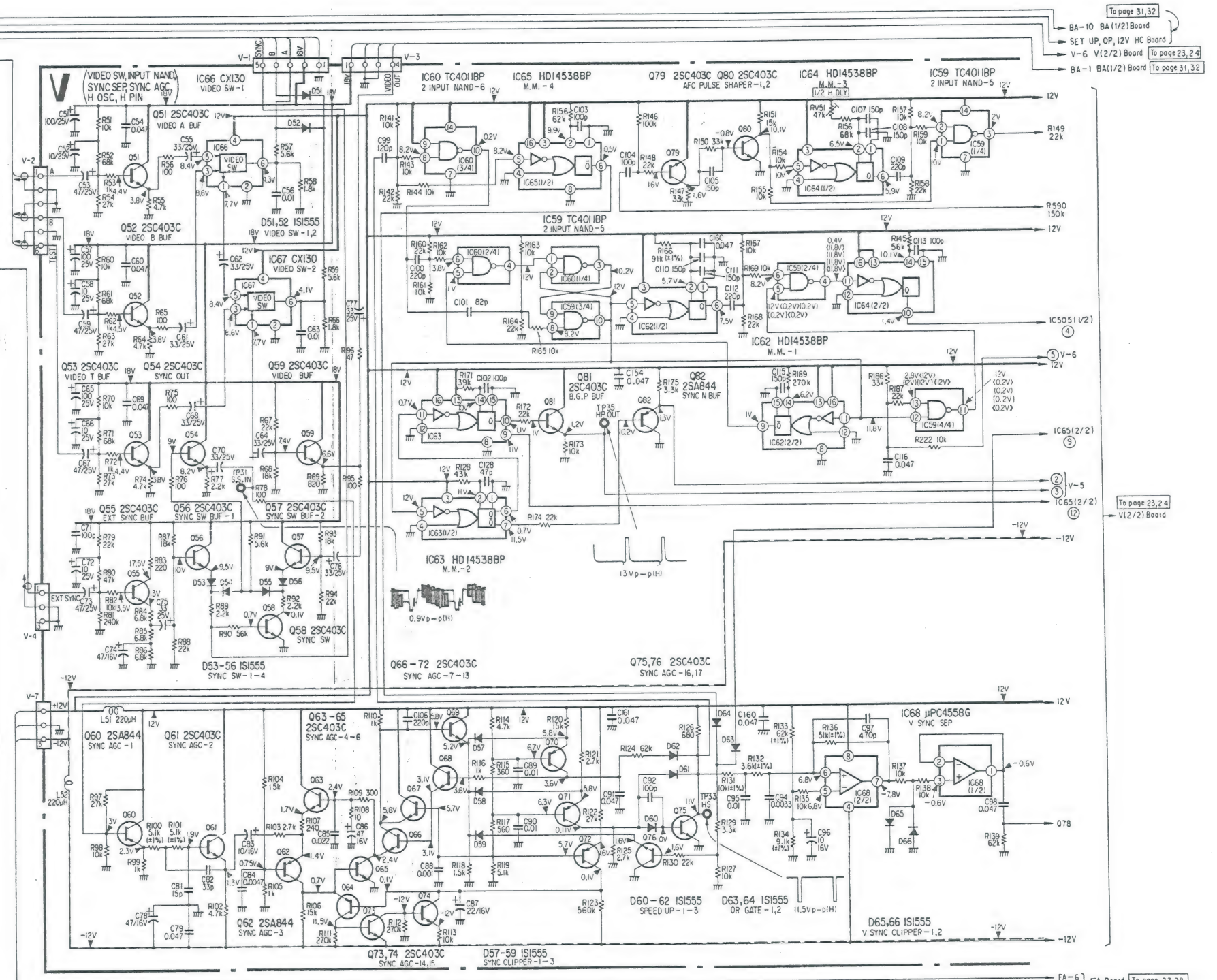
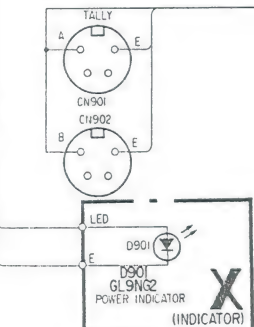
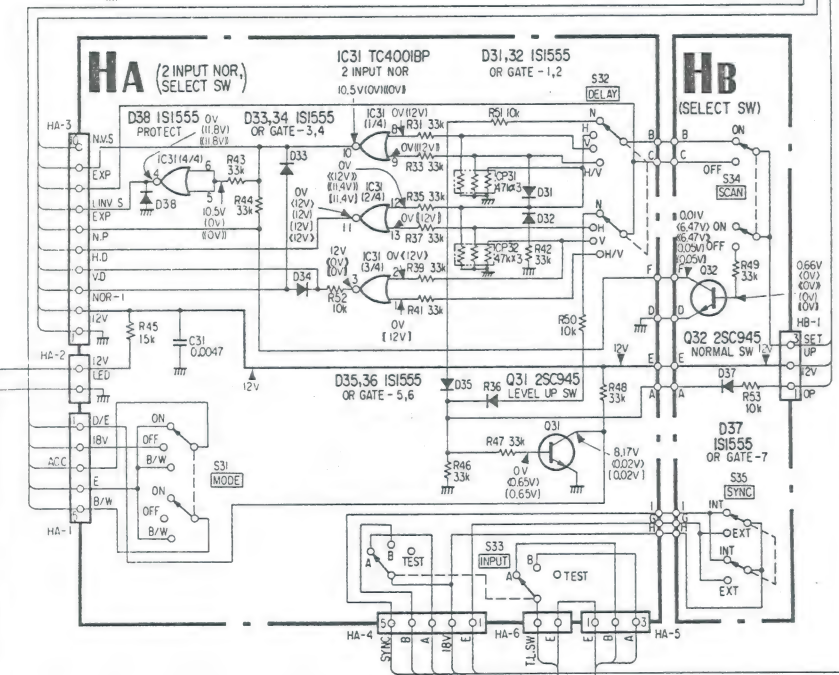
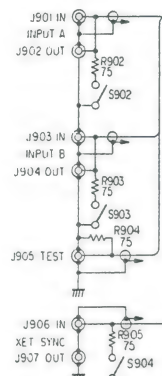
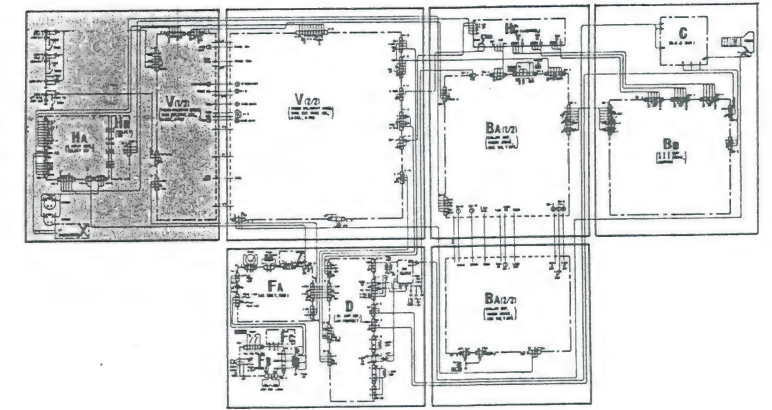
A

B

C

D

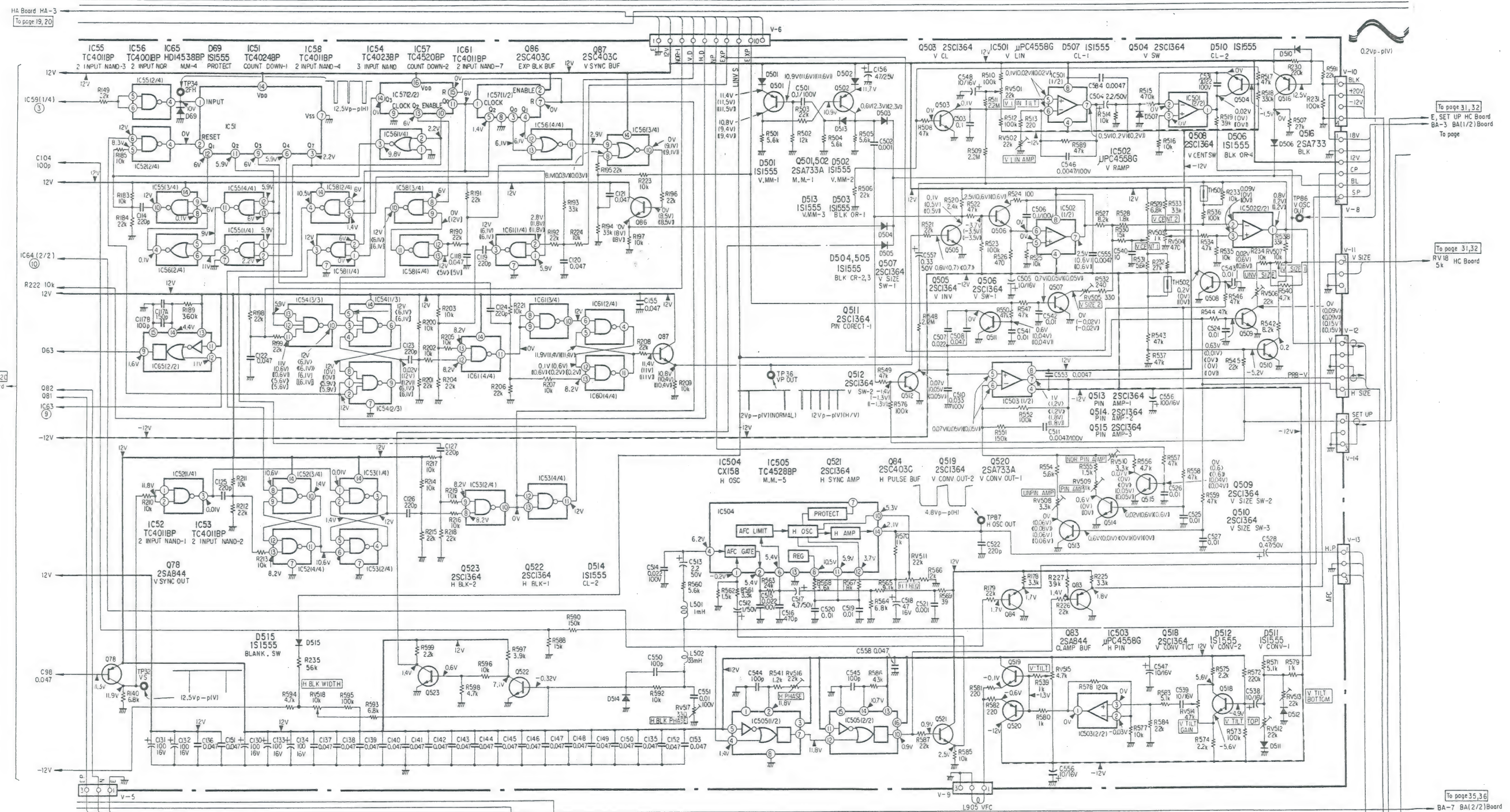
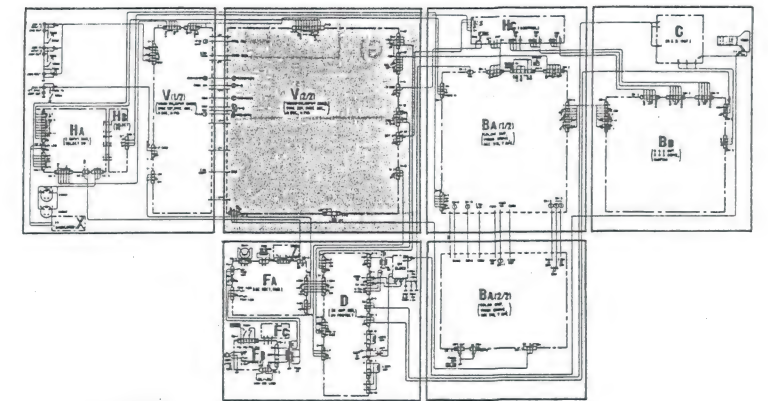
E





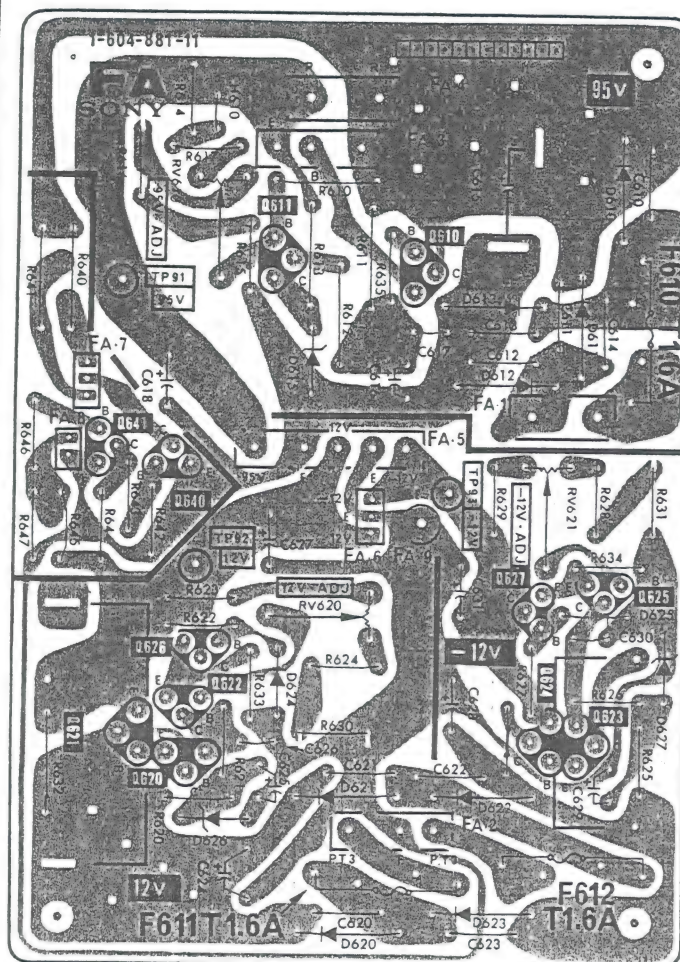






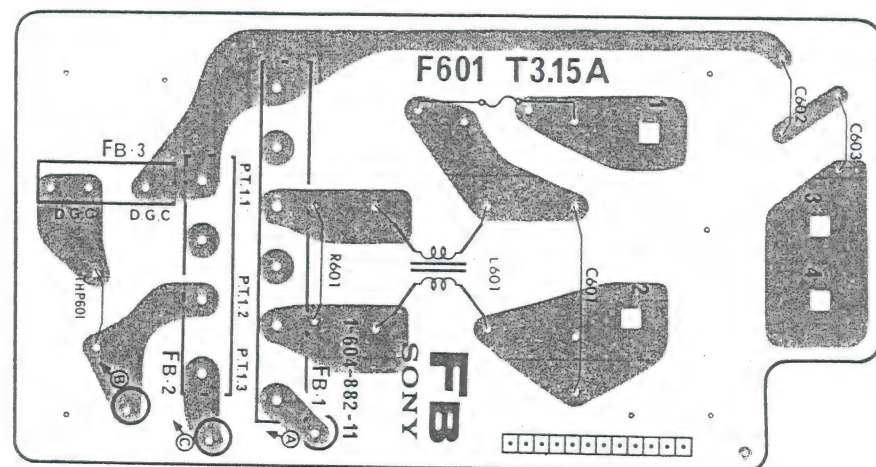


— FA Board —

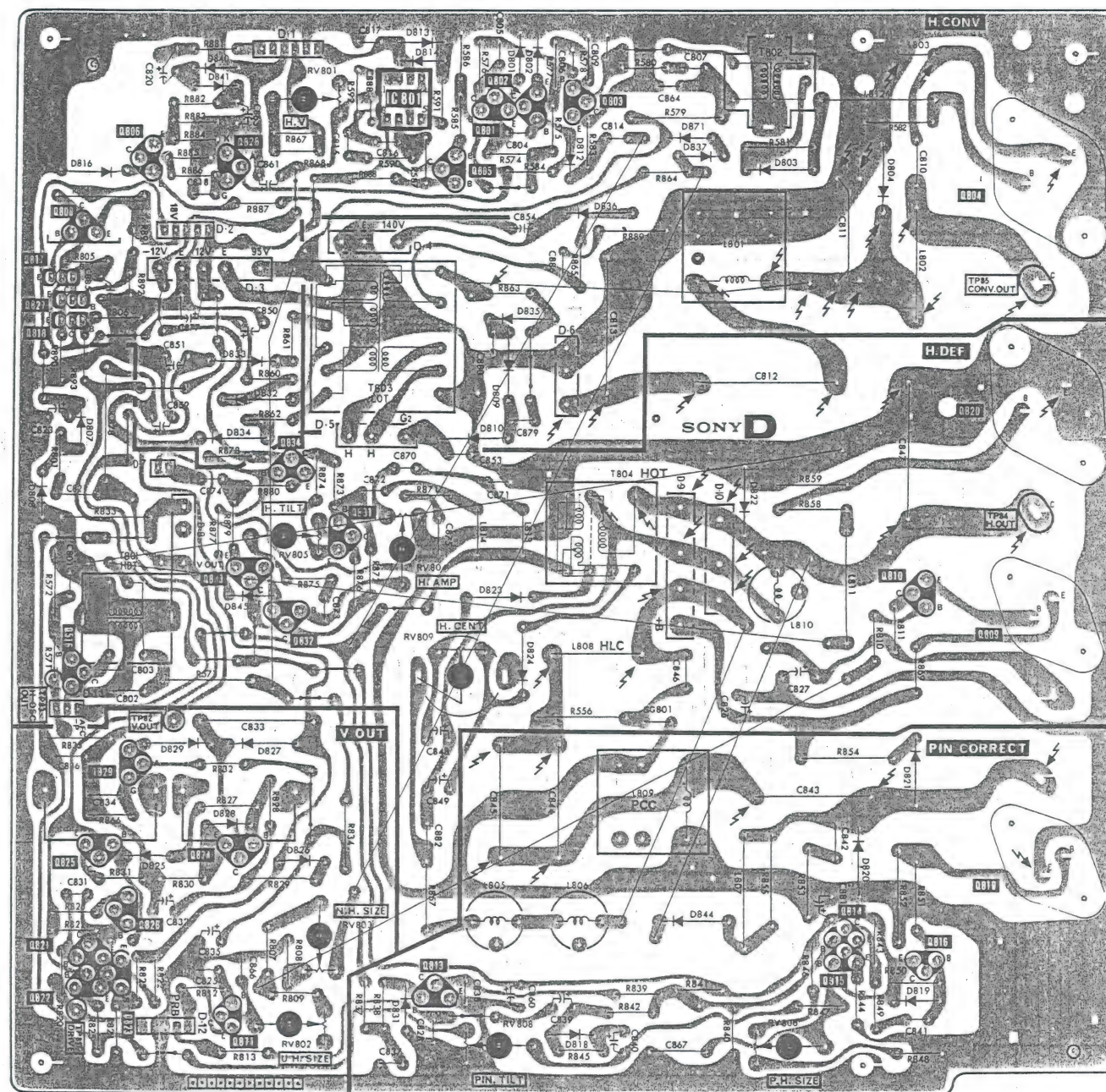


Q, IC	D	ADJ
610		RV610
611	610	
613	611	
615	612	
641	640	RV621
625	625	RV620
627	627	
626	624	
622	622	
621	622	
626	626	
623	623	
620	620	
Q, IC	D	ADJ

— FB Board —

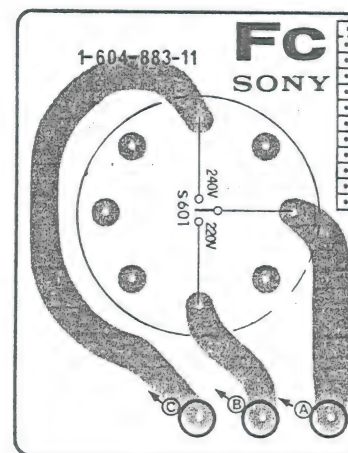


— D Board —



Q, IC	D	ADJ
813	801 802	
814	801 802	
815	801 802	
816	801 802	
817	801 802	
818	801 802	
819	801 802	
820	801 802	
821	801 802	
822	801 802	
823	801 802	
824	801 802	
825	801 802	
826	801 802	
827	801 802	
828	801 802	
829	801 802	
830	801 802	
831	801 802	
832	801 802	
833	801 802	
834	801 802	
835	801 802	
836	801 802	
837	801 802	
838	801 802	
839	801 802	
840	801 802	
841	801 802	
842	801 802	
843	801 802	
844	801 802	
845	801 802	
846	801 802	
847	801 802	
848	801 802	
849	801 802	
850	801 802	
851	801 802	
852	801 802	
853	801 802	
854	801 802	
855	801 802	
856	801 802	
857	801 802	
858	801 802	
859	801 802	
860	801 802	
861	801 802	
862	801 802	
863	801 802	
864	801 802	
865	801 802	
866	801 802	
867	801 802	
868	801 802	
869	801 802	
870	801 802	
871	801 802	
872	801 802	
873	801 802	
874	801 802	
875	801 802	
876	801 802	
877	801 802	
878	801 802	
879	801 802	
880	801 802	
881	801 802	
882	801 802	
883	801 802	
884	801 802	
885	801 802	
886	801 802	
887	801 802	
888	801 802	
889	801 802	
890	801 802	
891	801 802	
892	801 802	
893	801 802	
894	801 802	
895	801 802	
896	801 802	
897	801 802	
898	801 802	
899	801 802	
900	801 802	
Q, IC	D	ADJ

— FC Board —



— Z Board —





13 and 14.)

Part replaced ( <input type="checkbox"/> )	Adjustment ( <input checked="" type="checkbox"/> )
Q806, D816, D840 D841, R867, R881 R882, R883, RV801 HV Bl. CK	R883 and R867 adjustments

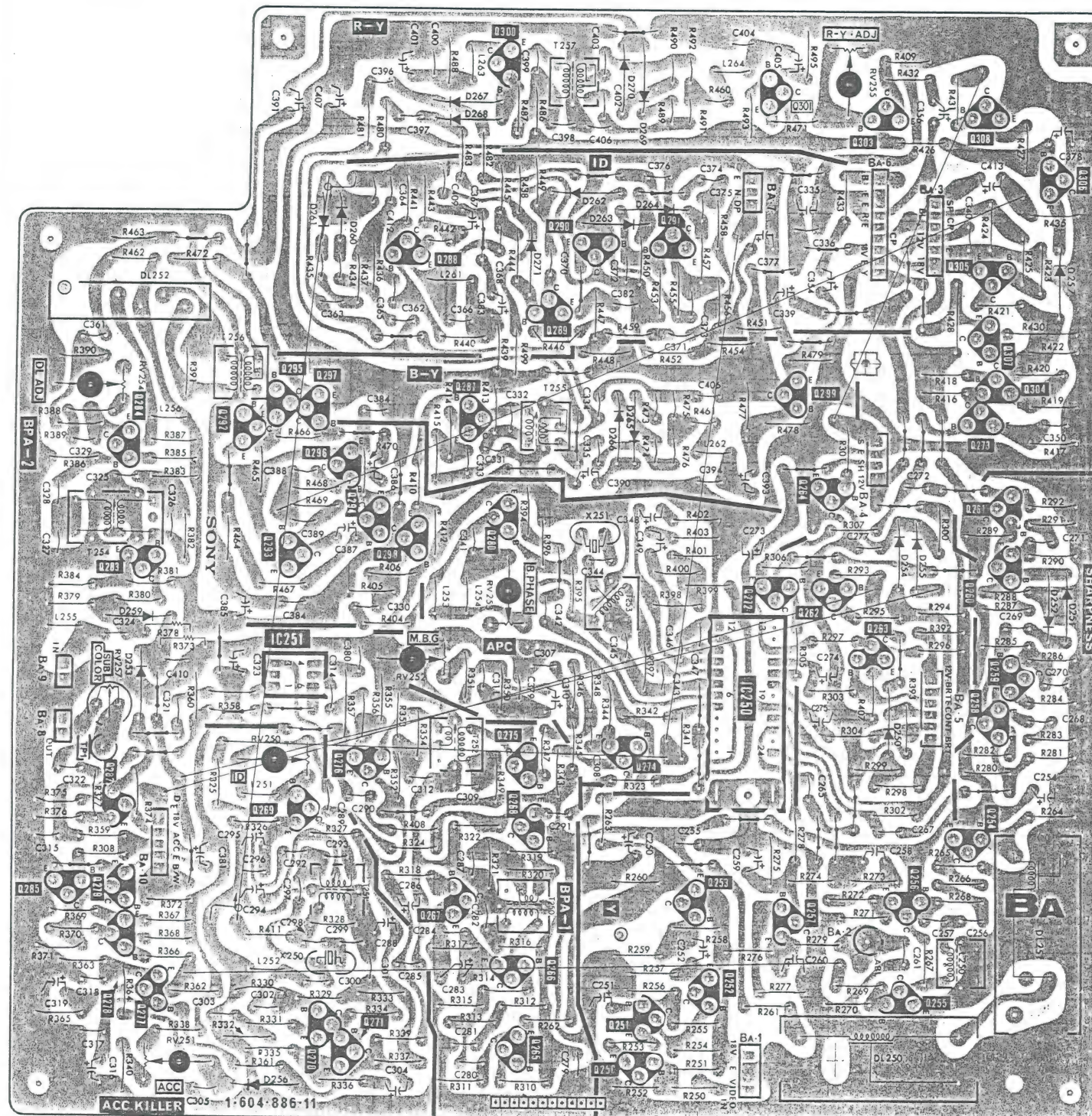
 are critical for safety. Replace only with part number specified.



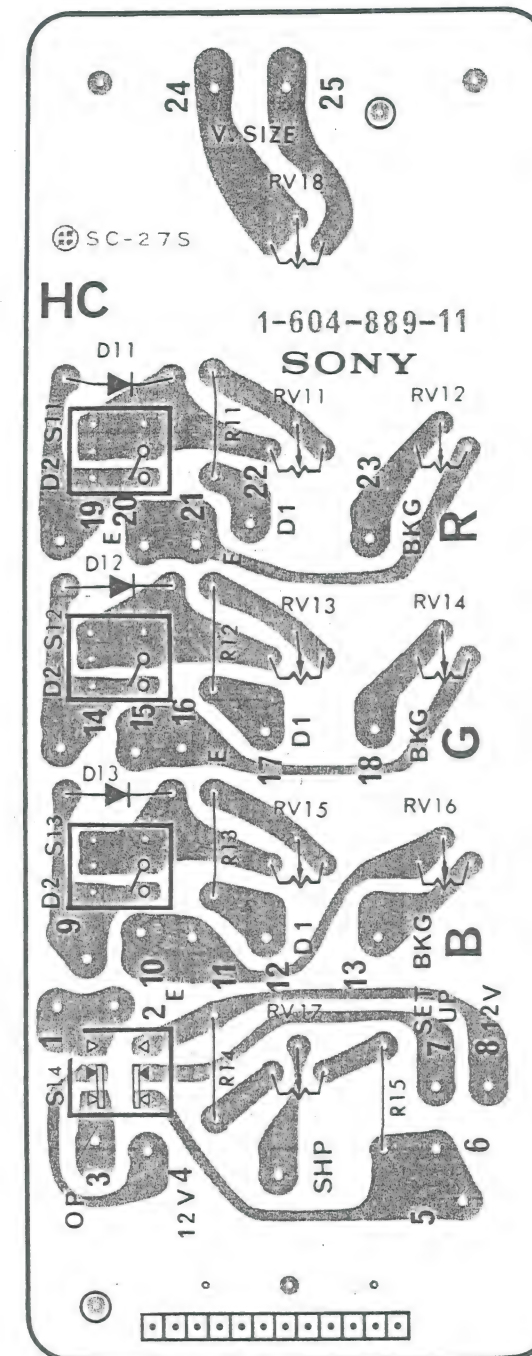


— Hc Board —

— BA ½ Board —



Q, IC	D	ADJ
300	270	
301	269	RV25
303 308	267 268	
306	262 264 260	
290 291	261 263	
288	271	
305	257	
289		
307		
304 299		RV254
295 297		
287 273	266	
292	265	
284		
296		
264		
261		
294 280		
298	254 255	
293 260		
283		
272 262	251	RV253
	252	
	259	
263		
IC251 259	253	RV252
IC250		RV257
258		
	250	
274		
276 275		RV250
282 269		
268		
254		
285 279		
267 253 256		
257		
278		
266		
277 252		
255		
251		
270		
271 265		
250		RV251
	256	
Q, IC	D	ADJ





BA 1/2 COLOR BUF  
VIDEO DRIVE  
ACC SW, Y APC

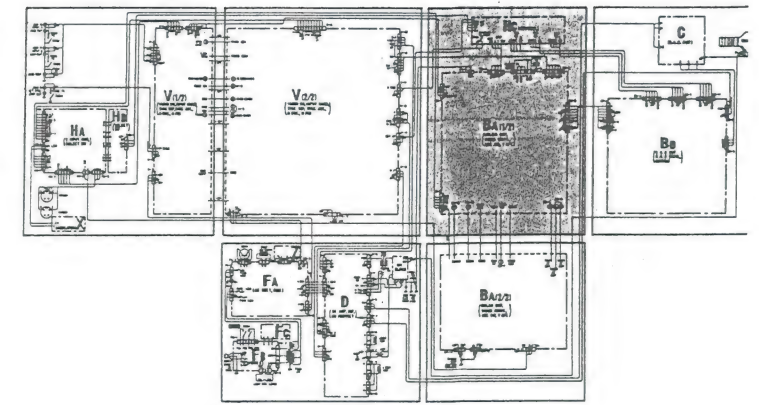
Hc (CONTROL)

SCC-363A-A

PVM-1320P

PVM-1320P

SCC-363A-A



1

2

3

4

5

To page 19, 20  
HA Board HA-1  
HB Board HB-1  
V12/21 Board V-3  
To page

To page 23, 24  
V-14  
V12/21 Board V-8

HV BLOCK  
To page 27, 28

To page 23, 24  
V12/21 Board V-11

To page 39, 40  
BB-4  
BB-3  
BB-2

To page 39, 40  
BB-1  
BB Board

To page 35, 36



A

B

C

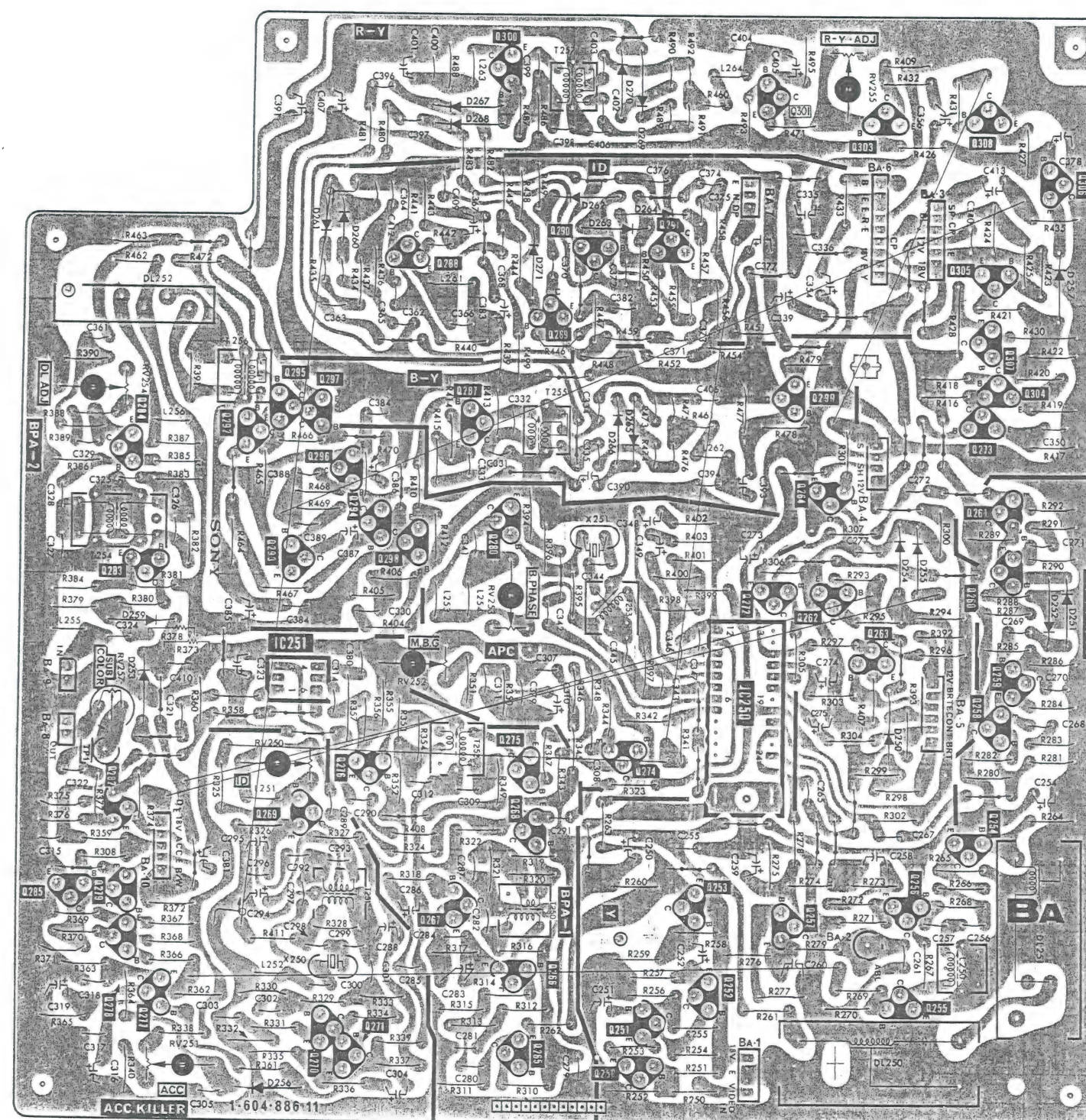
D

E

5

5

— BA <sup>2</sup>/<sub>2</sub> Board —



Q, IC	D	AD
300	270	RV2
301	269	
303 308	267 268	
306	262 264 260	
290 291	261 263	RV25
288	271	
305	257	
289	307	
304		RV25
299		
295 297	266	
287 273	265	
292		RV25
284		
296		
264		
261		RV25
294 280		
298	254 255	
293 260		
272 262	251	RV25
259	252	
263		
IC251 259	253	
IC250		RV257
258		RV250
274	250	
276 275		
282 269		
268		RV25
254		
285 279		
267 253 256		
257		RV25
278		
266		
277 252		
295		RV25
251		
270		
271 265		
250		
	256	
Q, IC	D	AD



BA<sup>2</sup>/<sub>2</sub>

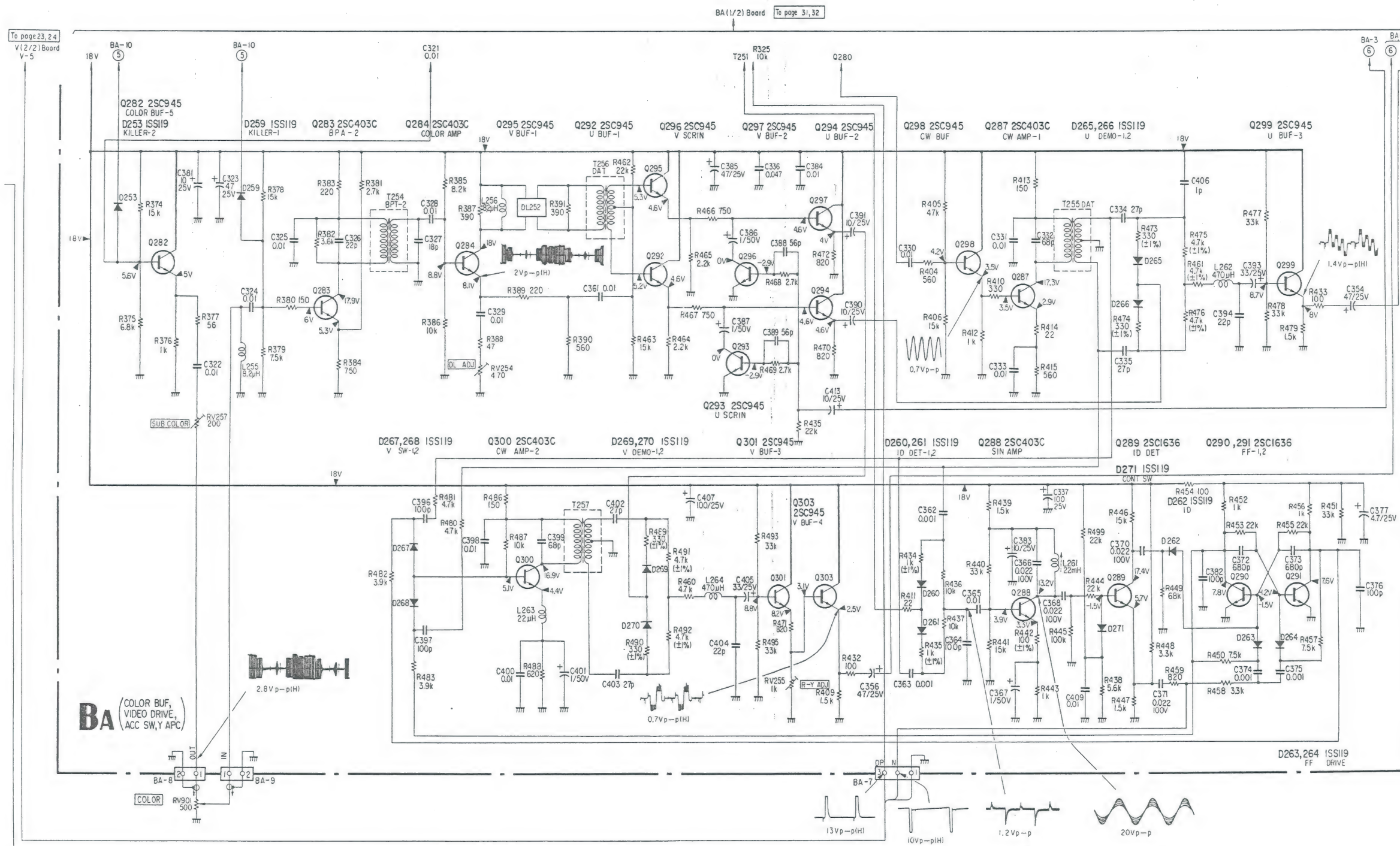
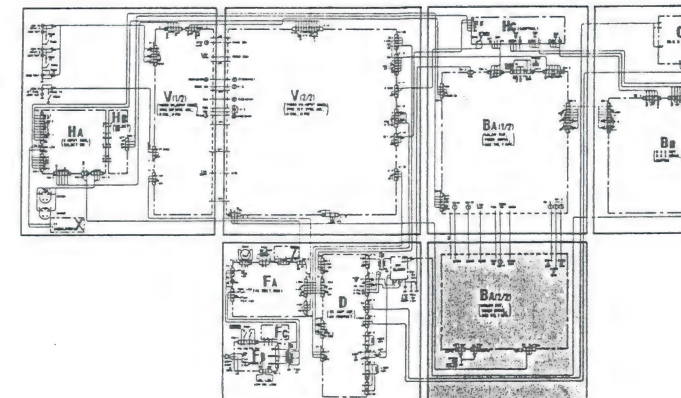
COLOR BUF  
VIDEO DRIVE  
ACC SW, Y APC

SCC-363A-A

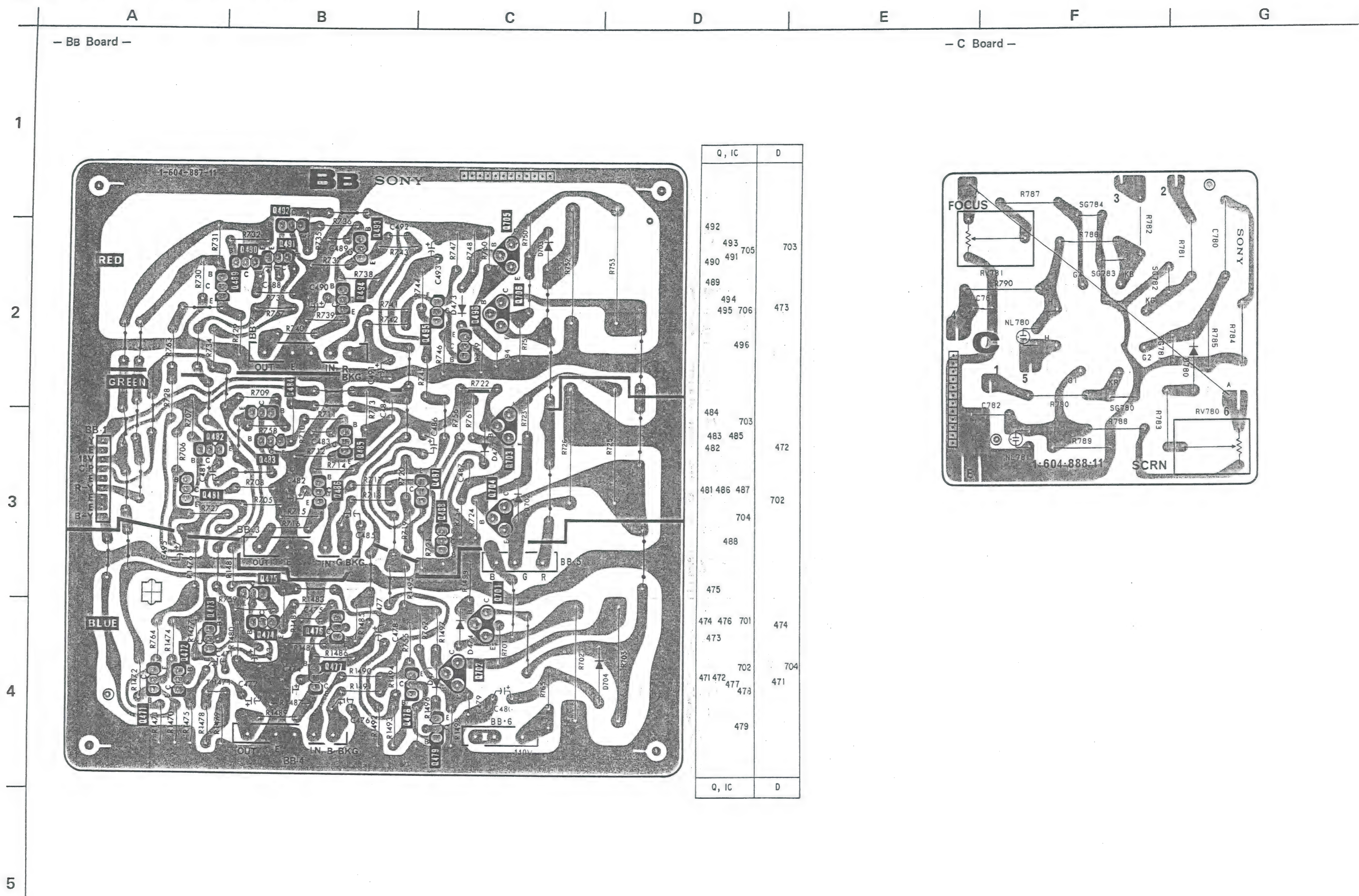
PVM-1320P

PVM-1320P

SCC-363A-A







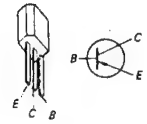




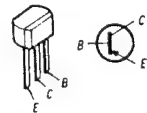


### 4-3. SEMICONDUCTORS

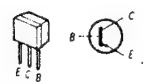
2SA1026  
2SA1027R



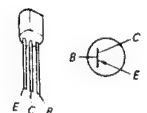
2SA1115



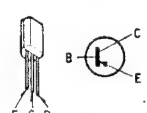
2SA1175



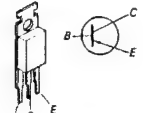
2SA684  
2SA733  
2SA773



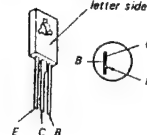
2SA844



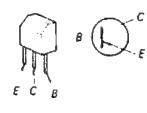
2SB566A  
2SB858  
2SB861



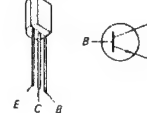
2SB649  
2SB649A



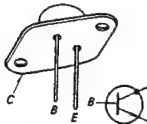
2SB734



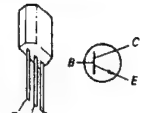
2SC1363  
2SC1364



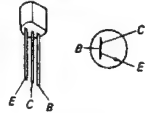
2SC1413  
2SC1413A



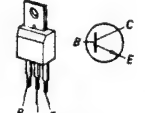
2SC1636  
2SC403C



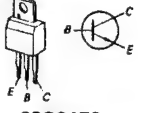
2SC1670  
2SC1811  
2SC1815  
2SC1890A  
2SC2383  
2SC2603  
2SC945



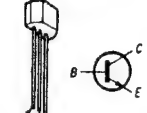
2SC1810



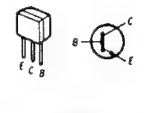
2SC2278



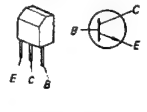
2SC2458



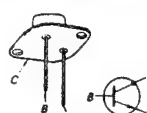
2SC2785



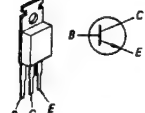
2SC2959  
2SD774



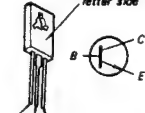
2SC867A



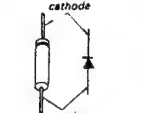
2SD1134  
2SD1138  
2SD476A



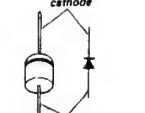
2SD669  
2SD669A



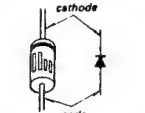
10E2  
1S1555  
1S2076  
1S2473  
1T22A  
1T22AM  
RD10E-N3  
RD15J-N2  
RD5.1E-N2



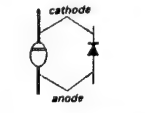
1SS119  
1SS120



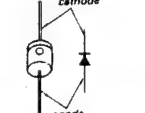
EQA01-05T1  
S1B01-02



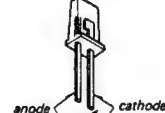
ERB26-20  
ERC26-15S  
GH3F  
GU3A  
U05E  
U05G  
V11N



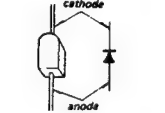
ERD28-08S



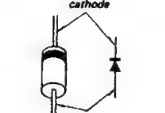
GL9NG2



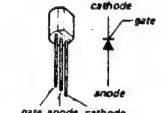
HF1C



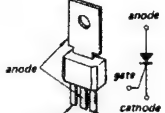
RH1  
RH1A  
RH1C



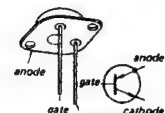
CR02AM



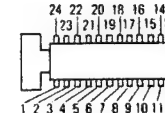
CV12E



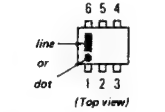
SG264A



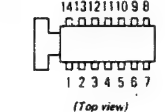
CX108



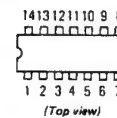
CX130



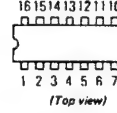
CX158



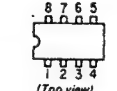
TC4001BP  
TC4011BP  
TC4023BP  
TC4024BP



TC4520BP  
TC4528BP



μPC4558C



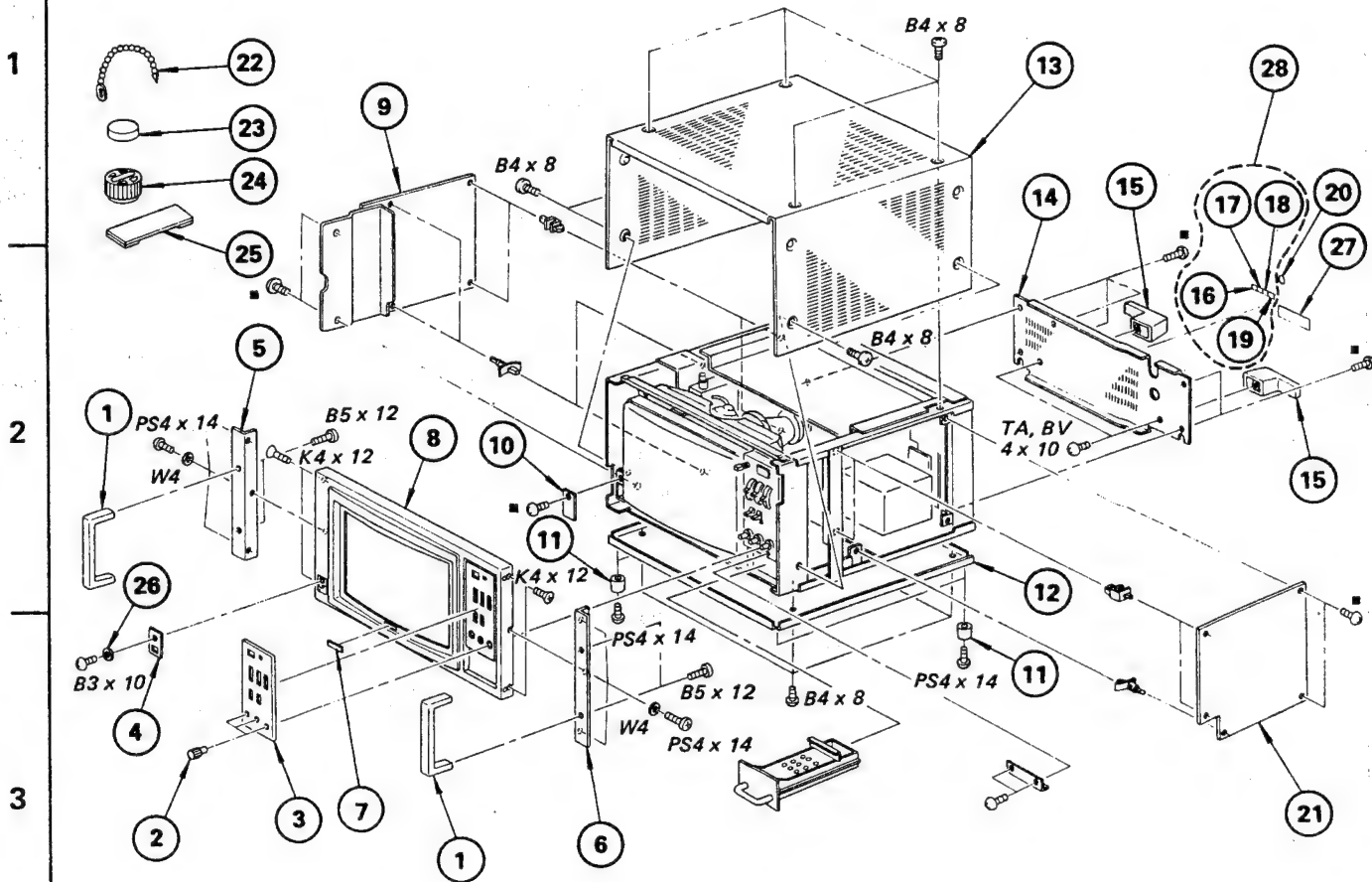


SECTION 5  
EXPLODED VIEWS

MEMO

(1) CABINET

■ : TA, BV3 x 8



No.	Part No	Description
1	4-337-212-00	HANDLE
2	X-4318-505-0	KNOB ASSY, CONTROL
3	▲4-353-623-00	PLATE (A), ORNAMENTAL
4	4-353-615-00	COVER
5	▲4-335-964-00	BASE (LEFT), HANDLE
6	▲4-335-963-00	BASE (RIGHT), HANDLE
7	3-701-845-00	EMBLEM, SONY
8	X-4353-602-0	BEZEL ASSY
9	▲A-1345-319-A	D BOARD, COMPLETE
10	▲1-604-884-00	Z BOARD
11	X-483-890-29	FOOT, RUBBER
12	▲4-353-645-00	COVER (LOWER)
13	4-353-644-00	COVER (UPPER)
14	4-353-635-00	COVER, BACK

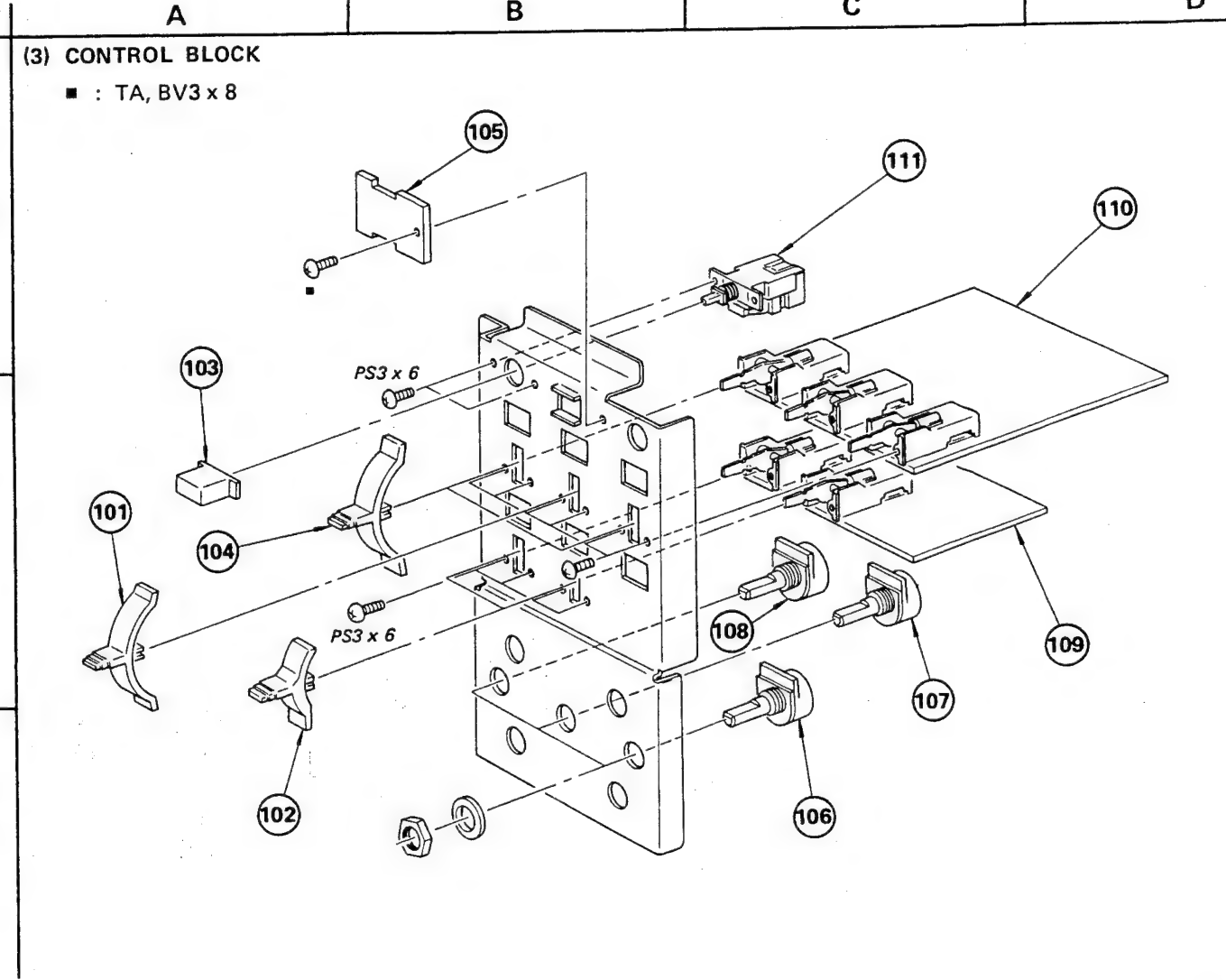
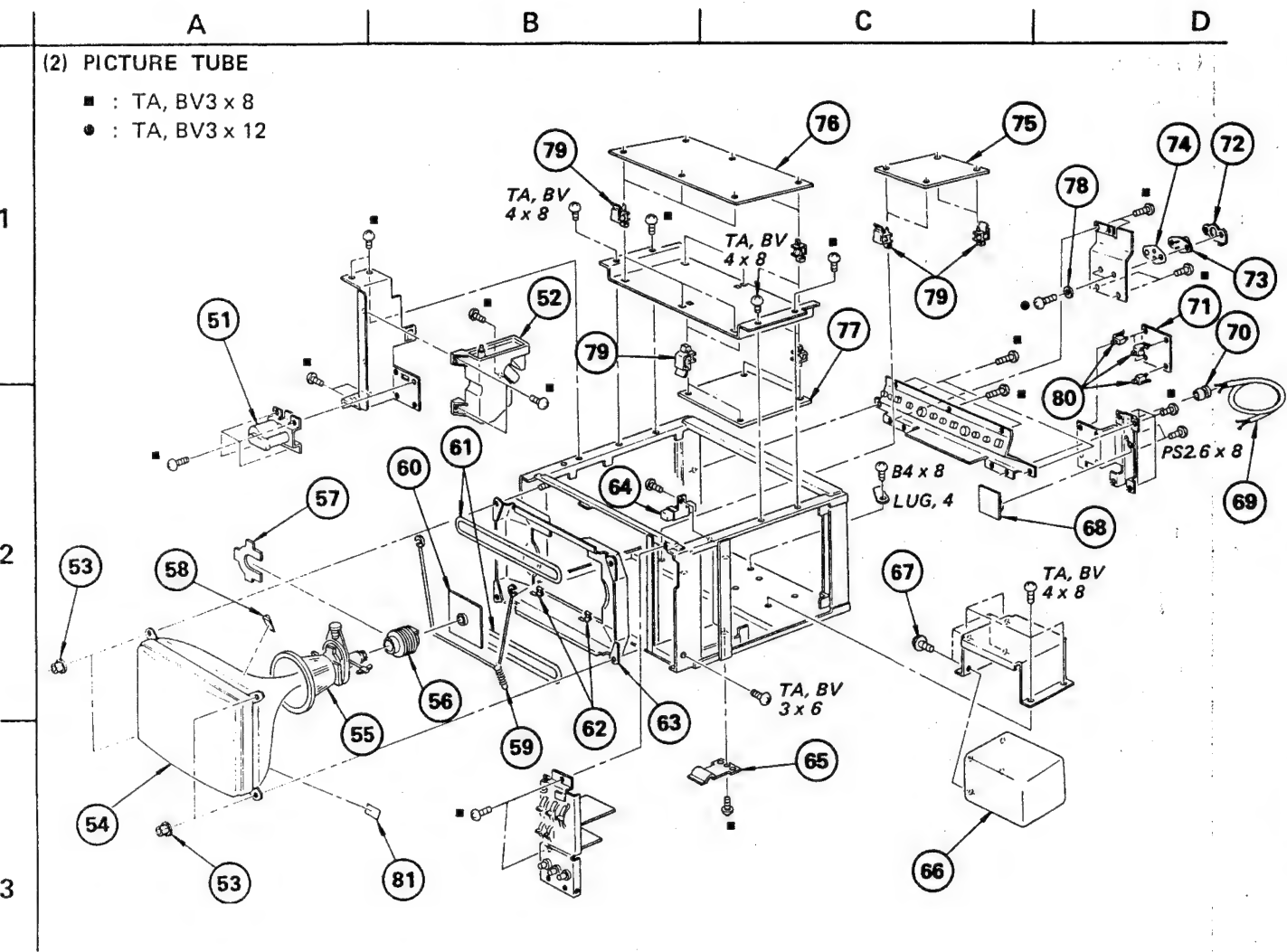
No.	Part No	Description
15	▲4-304-418-00	CLAMP, CORD
16	3-703-269-00	LABEL, SEV
17	4-310-379-00	LABEL, NEMKO
18	4-310-380-00	LABEL, DEMKO
19	4-310-381-00	LABEL, SEMKO
20	3-701-940-01	LABEL, BEAB
21	▲A-1135-130-A	BA BOARD, COMPLETE
22	4-308-870-00	CLIP, LEAD WIRE
23	1-452-032-00	MAGNET, DISC
24	1-452-094-00	MAGNET, ROTATABLE DISK; 15mm ϕ
25	X-4308-815-0	PERMALLOY ASSY, CONVERGENCE
26	3-701-440-11	WASHER, 3.5
27	▲4-353-618-00	LABEL, MODEL NUMBER (LARGE)
28	3-703-274-00	LABEL, APPROVAL

NOTE:  
• Items with no part number and no description are not stocked because they are seldom required for routine service.  
• The construction parts of an assembled part are indicated with a collation number in the remark column.

• As to the part numbered with E-, refer to the electrical parts list.  
• Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.





No.	Part No	Description
51	1-439-208-00	TRANSFORMER, FLYBACK
52	1-453-081-00	HIGH-VOLTAGE BLOCK, DC
53	4-306-034-00	FLANGE NUT, (B) 5MM
54	8-738-301-05	13NBF (FINE PITCH) 330UB22
55	1-451-160-00	DEFLECTION YOKE (SY-97)
56	1-452-112-42	NECK ASSY, CRT
57	1-452-146-00	MAGNET, BMC
58	3-703-003-00	SPACER, DY
59	4-303-774-XX	SPRING
60	A-1330-316-A	C BOARD, COMPLETE
61	1-425-922-41	COIL, DEGAUSS
62	4-309-624-00	TERMINAL, EARTH
63	X-4320-005-0	SHIELD ASSY, CRT
64	1-205-608-00	RES, CEMENT 180
65	4-353-604-00	SPRING, LEAF
66	1-447-065-00	TRANSFORMER, POWER

No.	Part No	Description	Remark
67	3-701-810-21	SCREW, TERMINAL	
68	1-604-883-00	FC BOARD	
69	1-534-820-XX	POWER CORD	
70	2-045-063-00	STOPPER, CORD	
71	1-604-882-00	FB BOARD	
72	4-314-938-01	RETAINER (TO-3), TRANSISTOR	
73	8-729-311-42	TRANSISTOR 2SC1114	
74	3-701-353-00	SPACER, MICA	
75	A-1245-138-A	FA BOARD, COMPLETE	
76	A-1347-003-A	V BOARD, COMPLETE	
77	A-1130-142-A	BB BOARD, COMPLETE	
78	3-701-609-00	BUSHING, (B)	
79	3-703-141-00	HOLDER, PCB	
80	3-659-681-00	HOLDER, PC BOARD	
81	3-701-690-00	LABEL	

No.	Part No	Description
101	4-347-105-00	KNOB (4P), LEVER SWITCH
102	4-335-954-02	KNOB (2P), LEVER SWITCH
103	4-335-962-00	PUSH BUTTON
104	4-335-953-02	KNOB (3P), LEVER SWITCH
105	1-604-885-00	X BOARD
106	1-224-259-XX	RES, VAR, CARBON 5.0K

No.	Part No	Description	Remark
107	1-224-619-00	RES, VAR, CARBON 5K	
108	1-226-687-00	RES, VAR 500	
109	1-604-880-00	HB BOARD	
110	1-604-879-00	HA BOARD	
111	1-553-330-00	SWITCH, PUSH (POWER)	

NOTE:  
• Items with no part number and no description are not stocked because they are seldom required for routine service.  
• The construction parts of an assembled part are indicated with a collation number in the remark column.

• As to the part numbered with E-, refer to the electrical parts list.  
• Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

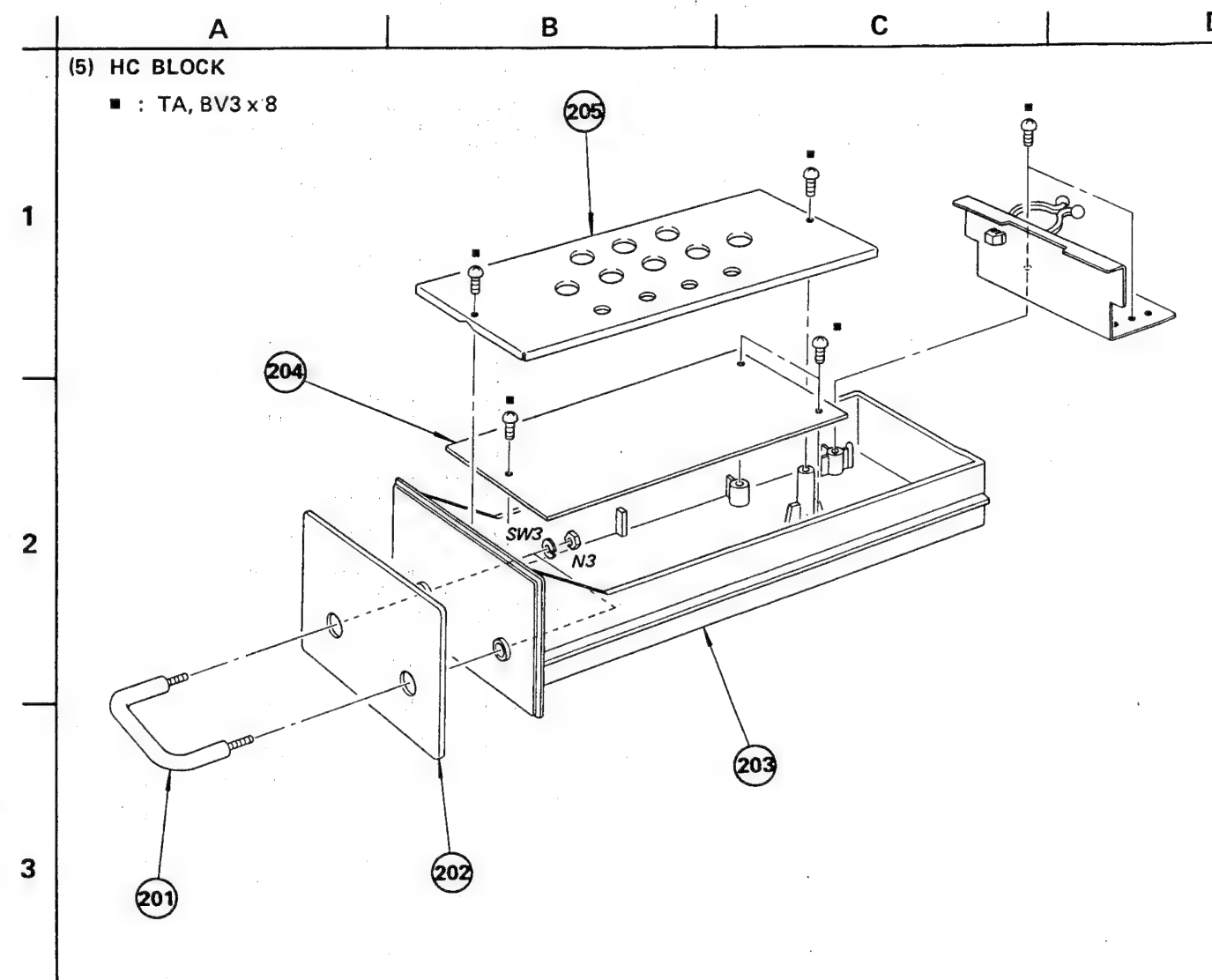
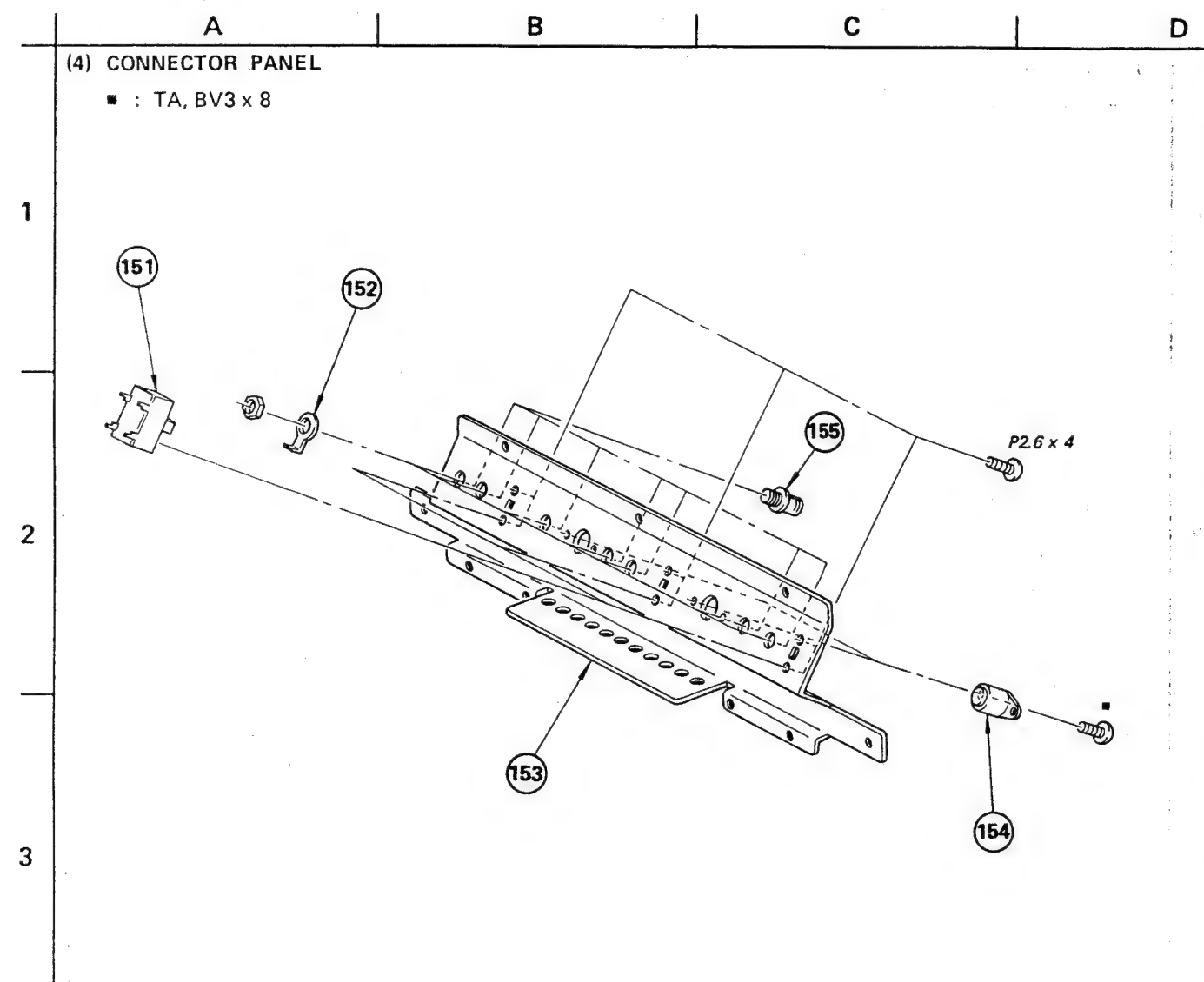
The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

NOTE:  
• Items with no part number and no description are not stocked because they are seldom required for routine service.  
• The construction parts of an assembled part are indicated with a collation number in the remark column.

• As to the part numbered with E-, refer to the electrical parts list.  
• Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.





No.	Part No	Description	Remark	No.	Part No	Description	Remark
151	1-516-777-XX	SLIDE SWITCH		154	1-509-718-00	DIN 4P SOCKET	
152	4-325-529-00	TERMINAL, CONNECTOR		155	1-561-167-00	CONNECTOR	
153	4-353-641-00	PANEL, CONNECTOR					

No.	Part No	Description	Remark	No.	Part No	Description	Remark
201	4-335-904-02	HANDLE (S)		204	1-604-889-00	HC BOARD	
202	4-353-614-00	PLATE (B), ORNAMENTAL		205	4-353-637-00	COVER (HC)	
203	X-4353-601-0	CASE ASSY, HC					

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the electrical parts list.
- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the electrical parts list.
- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.



## SECTION 6

### ELECTRICAL PARTS LIST

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
A-1130-142-A	BB BOARD, COMPLETE *****			Q478	8-729-117-54	TRANSISTOR 2SA1175	
				Q479	8-729-117-54	TRANSISTOR 2SA1175	
				Q481	8-724-375-01	TRANSISTOR 2SC403C	
				Q482	8-729-178-54	TRANSISTOR 2SC2785	
				Q483	8-729-117-54	TRANSISTOR 2SA1175	
BB1	A-1-560-129-00	PLUG, CONNECTOR (2.5MM) 3P		Q484	8-729-178-54	TRANSISTOR 2SC2785	
BB2	A-1-508-767-00	5P PLUG		Q485	8-724-375-01	TRANSISTOR 2SC403C	
BB3	A-1-508-767-00	5P PLUG		Q486	8-729-178-54	TRANSISTOR 2SC2785	
BB4	A-1-508-767-00	5P PLUG		Q487	8-729-117-54	TRANSISTOR 2SA1175	
BB5	A-1-508-765-00	3P PLUG (M)		Q488	8-729-117-54	TRANSISTOR 2SA1175	
BB6	A-1-508-765-00	3P PLUG (M)		Q489	8-724-375-01	TRANSISTOR 2SC403C	
				Q490	8-729-178-54	TRANSISTOR 2SC2785	
				Q491	8-729-178-54	TRANSISTOR 2SC2785	
C471	1-123-380-00	ELECT 1MF 20% 50V		Q492	8-729-117-54	TRANSISTOR 2SA1175	
C472	1-123-329-00	ELECT 10MF 20% 25V		Q493	8-724-375-01	TRANSISTOR 2SC403C	
C473	1-123-335-00	ELECT 330MF 20% 25V		Q494	8-729-178-54	TRANSISTOR 2SC2785	
C474	1-123-333-00	ELECT 100MF 20% 25V		Q495	8-729-117-54	TRANSISTOR 2SA1175	
C475	1-102-980-00	CERAMIC 270PF 5% 50V		Q496	8-729-117-54	TRANSISTOR 2SA1175	
C476	1-123-329-00	ELECT 10MF 20% 25V		Q701	8-729-322-78	TRANSISTOR 2SC2278	
C478	1-123-331-00	ELECT 33MF 20% 25V		Q702	8-729-322-78	TRANSISTOR 2SC2278	
C479	1-102-978-00	CERAMIC 220PF 5% 50V		Q703	8-729-322-78	TRANSISTOR 2SC2278	
C480	1-123-253-00	ELECT 22MF 160V		Q704	8-729-322-78	TRANSISTOR 2SC2278	
C481	1-123-380-00	ELECT 1MF 20% 50V		Q705	8-729-322-78	TRANSISTOR 2SC2278	
C482	1-123-333-00	ELECT 100MF 20% 25V		Q706	8-729-322-78	TRANSISTOR 2SC2278	
C483	1-102-980-00	CERAMIC 270PF 5% 50V					
C485	1-123-329-00	ELECT 10MF 20% 25V					
C486	1-123-331-00	ELECT 33MF 20% 25V					
C487	1-102-978-00	CERAMIC 220PF 5% 50V					
C488	1-123-380-00	ELECT 1MF 20% 50V		R701	1-246-449-00	CARBON 100 5% 1/4W	
C489	1-102-980-00	CERAMIC 270PF 5% 50V		R702	1-206-749-00	METAL 10K 5% 3W	F
C490	1-123-333-00	ELECT 100MF 20% 25V		R703	1-206-749-00	METAL 10K 5% 3W	F
C491	1-123-329-00	ELECT 10MF 20% 25V		R705	1-246-473-00	CARBON 1K 5% 1/4W	
C493	1-123-331-00	ELECT 33MF 20% 25V		R706	1-246-501-00	CARBON 15K 5% 1/4W	
C494	1-102-978-00	CERAMIC 220PF 5% 50V		R707	1-246-487-00	CARBON 3.9K 5% 1/4W	
C495	1-123-329-00	ELECT 10MF 20% 25V		R708	1-246-483-00	CARBON 2.7K 5% 1/4W	
				R709	1-246-473-00	CARBON 1K 5% 1/4W	
				R710	1-246-481-00	CARBON 2.2K 5% 1/4W	
				R711	1-246-467-00	CARBON 560 5% 1/4W	
D471	8-719-911-19	DIODE 1SS119		R712	1-246-491-00	CARBON 5.6K 5% 1/4W	
D472	8-719-911-19	DIODE 1SS119		R713	1-246-470-00	CARBON 750 5% 1/4W	
D473	8-719-911-19	DIODE 1SS119		R714	1-246-470-00	CARBON 750 5% 1/4W	
D474	8-719-911-19	DIODE 1SS119		R715	1-246-489-00	CARBON 4.7K 5% 1/4W	
D702	8-719-911-19	DIODE 1SS119		R716	1-246-442-00	CARBON 51 5% 1/4W	
D703	8-719-911-19	DIODE 1SS119		R717	1-246-442-00	CARBON 51 5% 1/4W	
D704	8-719-300-76	DIODE RH1A		R718	1-246-489-00	CARBON 4.7K 5% 1/4W	
				R719	1-246-449-00	CARBON 100 5% 1/4W	
				R720	1-246-473-00	CARBON 1K 5% 1/4W	
				R721	1-246-477-00	CARBON 1.5K 5% 1/4W	
Q471	8-724-375-01	TRANSISTOR 2SC403C		R722	1-246-487-00	CARBON 3.9K 5% 1/4W	
Q472	8-729-178-54	TRANSISTOR 2SC2785		R723	1-246-449-00	CARBON 100 5% 1/4W	
Q473	8-729-178-54	TRANSISTOR 2SC2785		R724	1-246-533-00	CARBON 330K 5% 1/4W	
Q474	8-729-117-54	TRANSISTOR 2SA1175		R725	1-206-749-00	METAL 10K 5% 3W	F
Q475	8-729-178-54	TRANSISTOR 2SC2785		R726	1-206-749-00	METAL 10K 5% 3W	F
Q476	8-724-375-01	TRANSISTOR 2SC403C		R727	1-246-481-00	CARBON 2.2K 5% 1/4W	
Q477	8-729-178-54	TRANSISTOR 2SC2785		R728	1-246-472-00	CARBON 910 5% 1/4W	

NOTE:

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
• MF :  $\mu$ F, PF :  $\mu\mu$ F

RESISTORS

- All resistors are in ohms
- F : nonflammable

COILS  
• MMH : mH, UH :  $\mu$ H

Ref.No	Part No	Description		Remark	Ref.No	Part No	Description		Remark
R729	1-246-473-00	CARBON	1K 5%	1/4W	R1487	1-246-489-00	CARBON	4.7K 5%	1/4W
R730	1-246-481-00	CARBON	2.2K 5%	1/4W	R1489	1-246-442-00	CARBON	51 5%	1/4W
R731	1-246-501-00	CARBON	15K 5%	1/4W	R1490	1-246-442-00	CARBON	51 5%	1/4W
R732	1-246-487-00	CARBON	3.9K 5%	1/4W	R1491	1-246-489-00	CARBON	4.7K 5%	1/4W
R733	1-246-483-00	CARBON	2.7K 5%	1/4W	R1492	1-246-497-00	CARBON	10K 5%	1/4W
R734	1-246-473-00	CARBON	1K 5%	1/4W	R1493	1-246-449-00	CARBON	100 5%	1/4W
R735	1-246-481-00	CARBON	2.2K 5%	1/4W	R1494	1-246-473-00	CARBON	1K 5%	1/4W
R736	1-246-467-00	CARBON	560 5%	1/4W	R1495	1-246-485-00	CARBON	3.3K 5%	1/4W
R737	1-246-491-00	CARBON	5.6K 5%	1/4W	R1496	1-246-477-00	CARBON	1.5K 5%	1/4W
R738	1-246-470-00	CARBON	750 5%	1/4W	R1497	1-246-487-00	CARBON	3.9K 5%	1/4W
R739	1-246-489-00	CARBON	4.7K 5%	1/4W	R1498	1-246-463-00	CARBON	390 5%	1/4W
R740	1-246-442-00	CARBON	51 5%	1/4W	R1499	1-246-533-00	CARBON	330K 5%	1/4W
R741	1-246-442-00	CARBON	51 5%	1/4W					
R742	1-246-489-00	CARBON	4.7K 5%	1/4W					
R743	1-246-470-00	CARBON	750 5%	1/4W					
R744	1-246-449-00	CARBON	100 5%	1/4W					
R745	1-246-473-00	CARBON	1K 5%	1/4W					
R746	1-246-477-00	CARBON	1.5K 5%	1/4W					
R747	1-246-475-00	CARBON	1.2K 5%	1/4W					
R748	1-246-487-00	CARBON	3.9K 5%	1/4W					
R749	1-246-463-00	CARBON	390 5%	1/4W					
R750	1-246-449-00	CARBON	100 5%	1/4W					
R751	1-246-533-00	CARBON	330K 5%	1/4W					
R752	1-206-749-00	METAL	10K 5%	3W F					
R753	1-206-749-00	METAL	10K 5%	3W F					
R754	1-246-463-00	CARBON	390 5%	1/4W					
R755	1-246-475-00	CARBON	1.2K 5%	1/4W					
R756	1-246-475-00	CARBON	1.2K 5%	1/4W					
R757	1-246-497-00	CARBON	10K 5%	1/4W					
R758	1-246-497-00	CARBON	10K 5%	1/4W					
R759	1-246-497-00	CARBON	10K 5%	1/4W					
R760	1-246-494-00	CARBON	7.5K 5%	1/4W					
R761	1-246-494-00	CARBON	7.5K 5%	1/4W					
R762	1-246-494-00	CARBON	7.5K 5%	1/4W					
R763	1-246-431-00	CARBON	18 5%	1/4W					
R764	1-246-458-00	CARBON	240 5%	1/4W					
R765	1-213-133-00	METAL	150 5%	1W F					
R1470	1-246-481-00	CARBON	2.2K 5%	1/4W					
R1471	1-246-473-00	CARBON	1K 5%	1/4W					
R1472	1-246-501-00	CARBON	15K 5%	1/4W					
R1474	1-246-487-00	CARBON	3.9K 5%	1/4W					
R1475	1-246-483-00	CARBON	2.7K 5%	1/4W					
R1476	1-246-487-00	CARBON	3.9K 5%	1/4W					
R1477	1-246-493-00	CARBON	6.8K 5%	1/4W					
R1478	1-246-457-00	CARBON	220 5%	1/4W					
R1479	1-246-495-00	CARBON	8.2K 5%	1/4W					
R1480	1-246-473-00	CARBON	1K 5%	1/4W					
R1481	1-246-473-00	CARBON	1K 5%	1/4W					
R1482	1-246-481-00	CARBON	2.2K 5%	1/4W					
R1483	1-246-467-00	CARBON	560 5%	1/4W					
R1484	1-246-491-00	CARBON	5.6K 5%	1/4W					
R1485	1-246-470-00	CARBON	750 5%	1/4W					
R1486	1-246-470-00	CARBON	750 5%	1/4W					

**NOTE:**

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

- Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
• MF :  $\mu$ F, PF :  $\mu\mu$ F

RESISTORS

- All resistors are in ohms
- F : nonflammable

COILS  
- MMH : mH, UH :  $\mu$ H



B A

B

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
C273	1-123-380-00	ELECT	1MF 20% 50V	C331	1-101-004-00	CERAMIC	0.01MF 50V
C274	1-123-380-00	ELECT	1MF 20% 50V	C332	1-102-676-00	CERAMIC	68PF 5% 50V
C275	1-123-380-00	ELECT	1MF 20% 50V	C333	1-101-004-00	CERAMIC	0.01MF 50V
C277	1-101-004-00	CERAMIC	0.01MF 50V	C334	1-102-961-00	CERAMIC	27PF 5% 50V
C279	1-101-004-00	CERAMIC	0.01MF 50V	C335	1-102-961-00	CERAMIC	27PF 5% 50V
C280	1-102-976-00	CERAMIC	180PF 5% 50V	C336	1-101-006-00	CERAMIC	0.047MF 50V
C281	1-101-006-00	CERAMIC	0.047MF 50V	C337	1-123-333-00	ELECT	100MF 20% 25V
C282	1-101-004-00	CERAMIC	0.01MF 50V	C339	1-123-332-00	ELECT	47MF 20% 25V
C283	1-123-333-00	ELECT	100MF 20% 16V	C340	1-101-006-00	CERAMIC	0.047MF 50V
C284	1-101-004-00	CERAMIC	0.01MF 50V	C341	1-101-361-00	CERAMIC	150PF 5% 50V
C285	1-101-006-00	CERAMIC	0.047MF 50V	C342	1-101-004-00	CERAMIC	0.01MF 50V
C286	1-123-356-00	ELECT	10MF 20% 16V	C343	1-102-700-00	CERAMIC	82PF 5% 50V
C287	1-101-006-00	CERAMIC	0.047MF 50V	C344	1-102-512-00	CERAMIC	16PF 5% 50V
C288	1-123-329-00	ELECT	10MF 20% 25V	C345	1-101-006-00	CERAMIC	0.047MF 50V
C289	1-102-965-00	CERAMIC	39PF 5% 50V	C346	1-108-375-00	MYLAR	0.0068MF 10% 100V
C290	1-101-004-00	CERAMIC	0.01MF 50V	C347	1-108-375-00	MYLAR	0.0068MF 10% 100V
C291	1-101-004-00	CERAMIC	0.01MF 50V	C348	1-123-379-00	ELECT	0.47MF 20% 50V
C292	1-102-937-00	CERAMIC	4PF 0.25PF 50V	C349	1-123-379-00	ELECT	0.47MF 20% 50V
C293	1-102-676-00	CERAMIC	68PF 5% 50V	C354	1-123-332-00	ELECT	47MF 20% 25V
C294	1-123-329-00	ELECT	10MF 20% 25V	C356	1-123-332-00	ELECT	47MF 20% 25V
C295	1-123-328-00	ELECT	4.7MF 20% 25V	C361	1-101-004-00	CERAMIC	0.01MF 50V
C296	1-101-006-00	CERAMIC	0.047MF 50V	C362	1-102-074-00	CERAMIC	0.001MF 10% 50V
C297	1-102-935-00	CERAMIC	2PF 0.25PF 50V	C363	1-102-074-00	CERAMIC	0.001MF 10% 50V
C298	1-102-961-00	CERAMIC	27PF 5% 50V	C364	1-102-973-00	CERAMIC	100PF 5% 50V
C299	1-102-963-00	CERAMIC	33PF 5% 50V	C365	1-101-004-00	CERAMIC	0.01MF 50V
C300	1-102-959-00	CERAMIC	22PF 5% 50V	C366	1-108-381-00	MYLAR	0.022MF 10% 100V
C301	1-101-006-00	CERAMIC	0.047MF 50V	C367	1-123-380-00	ELECT	1MF 20% 50V
C302	1-101-004-00	CERAMIC	0.01MF 50V	C368	1-108-381-00	MYLAR	0.022MF 10% 100V
C303	1-101-004-00	CERAMIC	0.01MF 50V	C370	1-108-381-00	MYLAR	0.022MF 10% 100V
C304	1-123-380-00	ELECT	1MF 20% 50V	C371	1-108-381-00	MYLAR	0.022MF 10% 100V
C305	1-101-006-00	CERAMIC	0.047MF 50V	C372	1-102-116-00	CERAMIC	680PF 10% 50V
C307	1-101-006-00	CERAMIC	0.047MF 50V	C373	1-102-116-00	CERAMIC	680PF 10% 50V
C308	1-102-976-00	CERAMIC	180PF 5% 50V	C374	1-102-074-00	CERAMIC	0.001MF 10% 50V
C309	1-101-004-00	CERAMIC	0.01MF 50V	C375	1-102-074-00	CERAMIC	0.001MF 10% 50V
C310	1-123-333-00	ELECT	100MF 20% 16V	C376	1-102-973-00	CERAMIC	100PF 5% 50V
C311	1-101-004-00	CERAMIC	0.01MF 50V	C377	1-123-328-00	ELECT	4.7MF 20% 25V
C312	1-101-006-00	CERAMIC	0.047MF 50V	C379	1-102-961-00	CERAMIC	27PF 5% 50V
C314	1-101-004-00	CERAMIC	0.01MF 50V	C380	1-101-004-00	CERAMIC	0.01MF 50V
C315	1-101-006-00	CERAMIC	0.047MF 50V	C381	1-123-329-00	ELECT	10MF 20% 25V
C316	1-123-328-00	ELECT	4.7MF 20% 25V	C382	1-102-973-00	CERAMIC	100PF 5% 50V
C317	1-101-006-00	CERAMIC	0.047MF 50V	C383	1-123-329-00	ELECT	10MF 20% 25V
C318	1-101-004-00	CERAMIC	0.01MF 50V	C384	1-101-004-00	CERAMIC	0.01MF 50V
C319	1-123-379-00	ELECT	0.47MF 20% 50V	C385	1-123-332-00	ELECT	47MF 20% 25V
C321	1-101-004-00	CERAMIC	0.01MF 50V	C386	1-123-380-00	ELECT	1MF 20% 50V
C322	1-101-004-00	CERAMIC	0.01MF 50V	C387	1-123-380-00	ELECT	1MF 20% 50V
C323	1-123-332-00	ELECT	47MF 20% 25V	C388	1-101-884-00	CERAMIC	56PF 5% 50V
C324	1-101-004-00	CERAMIC	0.01MF 50V	C389	1-101-884-00	CERAMIC	56PF 5% 50V
C325	1-101-004-00	CERAMIC	0.01MF 50V	C390	1-123-329-00	ELECT	10MF 20% 25V
C326	1-102-892-00	CERAMIC	22PF 5% 50V	C391	1-123-329-00	ELECT	10MF 20% 25V
C327	1-102-670-00	CERAMIC	18PF 5% 50V	C393	1-123-331-00	ELECT	33MF 20% 25V
C328	1-101-004-00	CERAMIC	0.01MF 50V	C394	1-102-959-00	CERAMIC	22PF 5% 50V
C329	1-101-004-00	CERAMIC	0.01MF 50V	C396	1-102-973-00	CERAMIC	100PF 5% 50V
C330	1-101-004-00	CERAMIC	0.01MF 50V	C397	1-102-973-00	CERAMIC	100PF 5% 50V

## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
MF:  $\mu$ F, PF:  $\mu$ F

RESISTORS  
All resistors are in ohms  
F: nonflammable

COILS  
MMH: mH, UH:  $\mu$ H

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
C398	1-101-004-00	CERAMIC	0.01MF 50V	L261	1-407-240-00	MICRO INDUCTOR	22MMH
C399	1-102-676-00	CERAMIC	68PF 5% 50V	L262	1-407-488-00	MICRO INDUCTOR	470UH
C400	1-101-004-00	CERAMIC	0.01MF 50V	L263	1-407-697-00	MICRO INDUCTOR	22UH
C401	1-123-380-00	ELECT	1MF 20% 50V	L264	1-407-488-00	MICRO INDUCTOR	470UH
C402	1-102-961-00	CERAMIC	27PF 5% 50V	TRANSISTOR			
C403	1-102-961-00	CERAMIC	27PF 5% 50V	Q250	=>8-729-612-77	TRANSISTOR	2SA1027R
C404	1-102-959-00	CERAMIC	22PF 5% 50V	Q251	8-724-374-01	TRANSISTOR	2SC403C
C405	1-123-331-00	ELECT	33MF 20% 25V	Q252	=>8-729-178-54	TRANSISTOR	2SC2785
C406	1-102-934-00	CERAMIC	1PF 0.25PF 50V	Q253	=>8-729-178-54	TRANSISTOR	2SC2785
C407	1-123-333-00	ELECT	100MF 20% 25V	Q254	=>8-729-178-54	TRANSISTOR	2SC2785
C409	1-101-004-00	CERAMIC	0.01MF 50V	Q255	=>8-729-178-54	TRANSISTOR	2SC2785
C410	1-101-006-00	CERAMIC	0.047MF 50V	Q256	=>8-729-178-54	TRANSISTOR	2SC2785
C413	1-123-329-00	ELECT	10MF 20% 25V	Q257	=>8-729-178-54	TRANSISTOR	2SC2785
DIODE				Q258	8-724-374-01	TRANSISTOR	2SC403C
D250	8-719-911-19	DIODE	1SS119	Q259	=>8-729-178-54	TRANSISTOR	2SC2785
D251	=>8-719-422-21	DIODE	1T22AM	Q260	8-724-374-01	TRANSISTOR	2SC403C
D252	=>8-719-422-21	DIODE	1T22AM	Q261	=>8-729-178-54	TRANSISTOR	2SC2785
D253	8-719-911-19	DIODE	1SS119	Q262	=>8-729-178-54	TRANSISTOR	2SC2785
D254	=>8-719-422-21	DIODE	1T22AM	Q263	=>8-729-178-54	TRANSISTOR	2SC2785
D255	8-719-911-19	DIODE	1SS119	Q264	=>8-729-178-54	TRANSISTOR	2SC2785
D256	8-719-911-19	DIODE	1SS119	Q265	=>8-729-178-54	TRANSISTOR	2SC2785
D259	8-719-911-19	DIODE	1SS119	Q266	8-724-374-01	TRANSISTOR	2SC403C
D260	8-719-911-19	DIODE	1SS119	Q267	=>8-729-178-54	TRANSISTOR	2SC2785
D261	8-719-911-19	DIODE	1SS119	Q268	=>8-729-178-54	TRANSISTOR	2SC2785
D262	8-719-911-19	DIODE	1SS119	Q269	8-724-374-01	TRANSISTOR	2SC403C
D263	8-719-911-19	DIODE	1SS119	Q270	8-724-374-01	TRANSISTOR	2SC403C
D264	8-719-911-19	DIODE	1SS119	Q271	=>8-729-178-54	TRANSISTOR	2SC2785
D265	8-719-911-19	DIODE	1SS119	Q272	=>8-729-178-54	TRANSISTOR	2SC2785
D266	8-719-911-19	DIODE	1SS119	Q273	8-724-374-01	TRANSISTOR	2SC403C
D267	8-719-911-19	DIODE	1SS119	Q274	=>8-729-178-54	TRANSISTOR	2SC2785
D268	8-719-911-19	DIODE	1SS119	Q275	8-724-374-01	TRANSISTOR	2SC403C
D269	8-719-911-19	DIODE	1SS119	Q276	=>8-729-178-54	TRANSISTOR	2SC2785
D270	8-719-911-19	DIODE	1SS119	Q277	=>8-729-178-54	TRANSISTOR	2SC2785
D271	8-719-911-19	DIODE	1SS119	Q278	=>8-729-178-54	TRANSISTOR	2SC2785
DELAY LINE				Q279	=>8-729-178-54	TRANSISTOR	2SC2785
DL250	1-415-100-00	DELAY LINE		Q280	8-724-374-01	TRANSISTOR	2SC403C
DL251	1-415-100-00	DELAY LINE		Q282	=>8-729-178-54	TRANSISTOR	2SC2785
DL252	1-415-122-31	DELAY LINE		Q283	8-724-374-01	TRANSISTOR	2SC403C
IC				Q284	8-724-374-01	TRANSISTOR	2SC403C
IC250	8-751-080-00	IC CX108		Q285	=>8-729-178-54	TRANSISTOR	2SC2785
IC251	8-751-300-00	IC CX130		Q287	8-724-374-01	TRANSISTOR	2SC403C
COIL				Q288	8-724-374-01	TRANSISTOR	2SC403C
L250	1-409-193-00	COIL 3.58MHZ TRAP		Q289	=>8-729-663-47	TRANSISTOR	2SC1634
L251	1-407-166-XX	MICRO INDUCTOR	56UH	Q290	=>8-729-663-47	TRANSISTOR	2SC1634
L252	1-407-189-XX	MICRO INDUCTOR	8.2UH	Q291	=>8-729-663-47	TRANSISTOR	2SC1634
L253	1-407-716-00	MICRO INDUCTOR	820UH	Q292	=>8-729-178-54	TRANSISTOR	2SC2785
L254	1-407-694-00	MICRO INDUCTOR	12UH	Q293	=>8-729-178-54	TRANSISTOR	2SC2785
L255	1-407-189-XX	MICRO INDUCTOR	8.2UH	Q294	=>8-729-178-54	TRANSISTOR	2SC2785
L256	1-407-189-XX	MICRO INDUCTOR	8.2UH	Q295	=>8-729-178-54	TRANSISTOR	2SC2785

## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
MF:  $\mu$ F, PF:  $\mu$ F

RESISTORS  
All resistors are in ohms  
F: nonflammable

COILS  
MMH: mH, UH:  $\mu$ H



Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
Q299	=>8-729-663-47	TRANSISTOR 2SC1634		R295	1-246-501-00	CARBON 15K 5% 1/4W		R349	1-246-457-00	CARBON 220 5% 1/4W		R403	1-246-485-00	CARBON 3.3K 5% 1/4W	
Q300	8-724-374-01	TRANSISTOR 2SC403C		R296	1-246-471-00	CARBON 820 5% 1/4W		R350	1-246-469-00	CARBON 680 5% 1/4W		R404	1-246-467-00	CARBON 560 5% 1/4W	
Q301	=>8-729-663-47	TRANSISTOR 2SC1634		R297	1-246-506-00	CARBON 24K 5% 1/4W		R351	1-246-457-00	CARBON 220 5% 1/4W		R405	1-246-513-00	CARBON 47K 5% 1/4W	
Q303	=>8-729-663-47	TRANSISTOR 2SC1634		R298	1-246-491-00	CARBON 5.6K 5% 1/4W		R352	1-246-507-00	CARBON 27K 5% 1/4W		R406	1-246-501-00	CARBON 15K 5% 1/4W	
Q304	=>8-729-663-47	TRANSISTOR 2SC1634		R299	1-246-491-00	CARBON 5.6K 5% 1/4W		R353	1-246-493-00	CARBON 6.8K 5% 1/4W		R407	1-246-465-00	CARBON 470 5% 1/4W	
Q305	=>8-729-663-47	TRANSISTOR 2SC1634		R300	1-246-509-00	CARBON 33K 5% 1/4W		R354	1-246-479-00	CARBON 1.8K 5% 1/4W		R408	1-246-449-00	CARBON 100 5% 1/4W	
Q307	8-729-304-92	TRANSISTOR 2SB649A		R301	1-246-497-00	CARBON 10K 5% 1/4W		R355	1-246-473-00	CARBON 1K 5% 1/4W		R409	1-246-477-00	CARBON 1.5K 5% 1/4W	
RESISTOR				R302	1-246-467-00	CARBON 560 5% 1/4W		R356	1-246-449-00	CARBON 100 5% 1/4W		R410	1-246-461-00	CARBON 330 5% 1/4W	
R250	1-246-441-00	CARBON 47 5% 1/4W		R303	1-246-473-00	CARBON 1K 5% 1/4W		R357	1-244-857-00	CARBON 220 5% 1/2W		R411	1-246-433-00	CARBON 22 5% 1/4W	
R251	1-246-516-00	CARBON 62K 5% 1/4W		R304	1-246-473-00	CARBON 1K 5% 1/4W		R358	1-246-453-00	CARBON 150 5% 1/4W		R412	1-246-473-00	CARBON 1K 5% 1/4W	
R252	1-246-491-00	CARBON 5.6K 5% 1/4W		R305	1-246-457-00	CARBON 220 5% 1/4W		R359	1-246-491-00	CARBON 5.6K 5% 1/4W		R413	1-246-453-00	CARBON 150 5% 1/4W	
R253	1-246-465-00	CARBON 470 5% 1/4W		R306	1-246-473-00	CARBON 1K 5% 1/4W		R360	1-246-479-00	CARBON 1.8K 5% 1/4W		R414	1-246-433-00	CARBON 22 5% 1/4W	
R254	1-246-473-00	CARBON 1K 5% 1/4W		R307	1-246-467-00	CARBON 560 5% 1/4W		R361	1-246-497-00	CARBON 10K 5% 1/4W		R415	1-246-467-00	CARBON 560 5% 1/4W	
R255	1-246-490-00	CARBON 5.1K 5% 1/4W		R308	1-246-509-00	CARBON 33K 5% 1/4W		R362	1-246-513-00	CARBON 47K 5% 1/4W		R416	1-246-473-00	CARBON 1K 5% 1/4W	
R256	1-246-483-00	CARBON 2.7K 5% 1/4W		R310	1-246-441-00	CARBON 47 5% 1/4W		R363	1-246-469-00	CARBON 680 5% 1/4W		R417	1-246-471-00	CARBON 820 5% 1/4W	
R257	1-246-483-00	CARBON 2.7K 5% 1/4W		R311	1-246-473-00	CARBON 1K 5% 1/4W		R364	1-246-463-00	CARBON 390 5% 1/4W		R418	1-246-457-00	CARBON 220 5% 1/4W	
R258	1-246-489-00	CARBON 4.7K 5% 1/4W		R312	1-246-457-00	CARBON 220 5% 1/4W		R366	1-246-501-00	CARBON 15K 5% 1/4W		R419	1-246-485-00	CARBON 3.3K 5% 1/4W	
R259	1-246-485-00	CARBON 3.3K 5% 1/4W		R313	1-246-485-00	CARBON 3.3K 5% 1/4W		R367	1-246-503-00	CARBON 18K 5% 1/4W		R420	1-246-471-00	CARBON 820 5% 1/4W	
R260	1-246-473-00	CARBON 1K 5% 1/4W		R314	1-246-453-00	CARBON 150 5% 1/4W		R368	1-246-507-00	CARBON 27K 5% 1/4W		R421	1-246-453-00	CARBON 150 5% 1/4W	
R261	1-246-473-00	CARBON 1K 5% 1/4W		R315	1-246-479-00	CARBON 1.8K 5% 1/4W		R369	1-246-473-00	CARBON 1K 5% 1/4W		R422	1-246-477-00	CARBON 1.5K 5% 1/4W	
R262	1-246-457-00	CARBON 220 5% 1/4W		R316	1-246-457-00	CARBON 220 5% 1/4W		R370	1-246-513-00	CARBON 47K 5% 1/4W		R423	1-246-483-00	CARBON 2.7K 5% 1/4W	
R263	1-246-457-00	CARBON 220 5% 1/4W		R317	1-246-469-00	CARBON 680 5% 1/4W		R371	1-246-501-00	CARBON 15K 5% 1/4W		R424	1-246-497-00	CARBON 10K 5% 1/4W	
R264	1-246-473-00	CARBON 1K 5% 1/4W		R318	1-246-481-00	CARBON 2.2K 5% 1/4W		R372	1-246-505-00	CARBON 22K 5% 1/4W		R425	1-246-497-00	CARBON 10K 5% 1/4W	
R265	1-246-471-00	CARBON 820 5% 1/4W		R319	1-246-507-00	CARBON 27K 5% 1/4W		R373	1-246-513-00	CARBON 47K 5% 1/4W		R428	1-244-869-00	CARBON 680 5% 1/2W	
R266	1-246-475-00	CARBON 1.2K 5% 1/4W		R320	1-246-479-00	CARBON 1.8K 5% 1/4W		R374	1-246-501-00	CARBON 15K 5% 1/4W		R430	1-244-841-00	CARBON 47 5% 1/2W	
R267	1-246-497-00	CARBON 10K 5% 1/4W		R321	1-246-493-00	CARBON 6.8K 5% 1/4W		R375	1-246-493-00	CARBON 6.8K 5% 1/4W		R432	1-246-449-00	CARBON 100 5% 1/4W	
R268	1-246-461-00	CARBON 330 5% 1/4W		R322	1-246-473-00	CARBON 1K 5% 1/4W		R376	1-246-473-00	CARBON 1K 5% 1/4W		R433	1-246-449-00	CARBON 100 5% 1/4W	
R269	1-246-513-00	CARBON 47K 5% 1/4W		R323	1-246-449-00	CARBON 100 5% 1/4W		R377	1-246-443-00	CARBON 56 5% 1/4W		R434	1-214-132-00	METAL 1K 1% 1/4W	
R270	1-246-509-00	CARBON 33K 5% 1/4W		R324	1-246-441-00	CARBON 47 5% 1/4W		R378	1-246-501-00	CARBON 15K 5% 1/4W		R435	1-214-132-00	METAL 1K 1% 1/4W	
R271	1-246-470-00	CARBON 750 5% 1/4W		R325	1-246-497-00	CARBON 10K 5% 1/4W		R379	1-246-494-00	CARBON 7.5K 5% 1/4W		R435	1-246-505-00	CARBON 22K 5% 1/4W	
R272	1-246-449-00	CARBON 100 5% 1/4W		R326	1-246-481-00	CARBON 2.2K 5% 1/4W		R380	1-246-453-00	CARBON 150 5% 1/4W		R436	1-246-497-00	CARBON 10K 5% 1/4W	
R273	1-246-501-00	CARBON 15K 5% 1/4W		R327	1-246-461-00	CARBON 330 5% 1/4W		R381	1-246-483-00	CARBON 2.7K 5% 1/4W		R437	1-246-497-00	CARBON 10K 5% 1/4W	
R274	1-246-497-00	CARBON 10K 5% 1/4W		R328	1-246-465-00	CARBON 470 5% 1/4W		R382	1-246-486-00	CARBON 3.6K 5% 1/4W		R438	1-246-491-00	CARBON 5.6K 5% 1/4W	
R275	1-246-517-00	CARBON 68K 5% 1/4W		R329	1-246-501-00	CARBON 15K 5% 1/4W		R383	1-246-457-00	CARBON 220 5% 1/4W		R439	1-246-477-00	CARBON 1.5K 5% 1/4W	
R276	1-246-521-00	CARBON 100K 5% 1/4W		R330	1-246-485-00	CARBON 3.3K 5% 1/4W		R384	1-246-470-00	CARBON 750 5% 1/4W		R440	1-246-509-00	CARBON 33K 5% 1/4W	
R277	1-246-505-00	CARBON 22K 5% 1/4W		R331	1-246-431-00	CARBON 18 5% 1/4W		R385	1-246-495-00	CARBON 8.2K 5% 1/4W		R441	1-246-501-00	CARBON 15K 5% 1/4W	
R278	1-246-483-00	CARBON 2.7K 5% 1/4W		R332	1-246-461-00	CARBON 330 5% 1/4W		R386	1-246-497-00	CARBON 10K 5% 1/4W		R442	1-214-108-00	METAL 100 1% 1/4W	
R279	1-246-465-00	CARBON 470 5% 1/4W		R333	1-246-453-00	CARBON 150 5% 1/4W		R387	1-246-463-00	CARBON 390 5% 1/4W		R443	1-246-473-00	CARBON 1K 5% 1/4W	
R280	1-246-511-00	CARBON 39K 5% 1/4W		R334	1-246-473-00	CARBON 1K 5% 1/4W		R388	1-246-441-00	CARBON 47 5% 1/4W		R444	1-246-505-00	CARBON 22K 5% 1/4W	
R281	1-246-505-00	CARBON 22K 5% 1/4W		R335	1-246-473-00	CARBON 1K 5% 1/4W		R389	1-246-457-00	CARBON 220 5% 1/4W		R445	1-246-521-00	CARBON 100K 5% 1/4W	
R282	1-246-473-00	CARBON 1K 5% 1/4W		R336	1-246-473-00	CARBON 1K 5% 1/4W		R390	1-246-467-00	CARBON 560 5% 1/4W		R446	1-246-501-00	CARBON 15K 5% 1/4W	
R283	1-246-439-00	CARBON 39 5% 1/4W		R337	1-246-517-00	CARBON 68K 5% 1/4W		R391	1-246-463-00	CARBON 390 5% 1/4W		R447	1-246-477-00	CARBON 1.5K 5% 1/4W	
R284	1-246-466-00	CARBON 510 5% 1/4W		R338	1-246-485-00	CARBON 3.3K 5% 1/4W		R392	1-246-491-00	CARBON 5.6K 5% 1/4W		R448	1-246-485-00	CARBON 3.3K 5% 1/4W	
R285	1-246-505-00	CARBON 22K 5% 1/4W		R339	1-246-501-00	CARBON 15K 5% 1/4W		R393	1-246-480-00	CARBON 2K 5% 1/4W		R449	1-246-517-00	CARBON 68K 5% 1/4W	
R286	1-246-493-00	CARBON 6.8K 5% 1/4W		R340	1-246-433-00	CARBON 22 5% 1/4W		R394	1-246-455-00	CARBON 180 5% 1/4W		R450	1-246-494-00	CARBON 7.5K 5% 1/4W	
R287	1-246-496-00	CARBON 9.1K 5% 1/4W		R341	1-246-509-00	CARBON 33K 5% 1/4W		R395	1-246-491-00	CARBON 5.6K 5% 1/4W		R451	1-246-509-00	CARBON 33K 5% 1/4W	
R288	1-246-483-00	CARBON 2.7K 5% 1/4W		R342	1-246-507-00	CARBON 27K 5% 1/4W		R396	1-246-475-00	CARBON 1.2K 5% 1/4W		R452	1-246-473-00	CARBON 1K 5% 1/4W	
R289	1-246-471-00	CARBON 820 5% 1/4W		R343	1-246-441-00	CARBON 47 5% 1/4W		R397	1-246-499-00	CARBON 12K 5% 1/4W		R453	1-246-505-00	CARBON 22K 5% 1/4W	
R290	1-246-463-00	CARBON 390 5% 1/4W		R344	1-246-473-00	CARBON 1K 5% 1/4W		R398	1-246-505-00	CARBON 22K 5% 1/4W		R454	1-246-449-00	CARBON 100 5% 1/4W	
R292	1-246-473-00	CARBON 1K 5% 1/4W		R345	1-246-457-00	CARBON 220 5% 1/4W		R399	1-246-485-00	CARBON 3.3K 5% 1/4W		R455	1-246-505-00	CARBON 22K 5% 1/4W	
R293	1-246-517-00	CARBON 68K 5% 1/4W		R346	1-246-485-00	CARBON 3.3K 5% 1/4W		R400	1-246-505-00	CARBON 22K 5% 1/4W		R456	1-246-473-00	CARBON 1K 5% 1/4W	
R294	1-246-499-00	CARBON 12K 5% 1/4W		R347	1-246-453-00	CARBON 150 5% 1/4W		R401	1-246-495-00	CARBON 8.2K 5% 1/4W		R457	1-246-494-00	CARBON 7.5K 5% 1/4W	
				R348	1-246-479-00	CARBON 1.8K 5% 1/4W		R402	1-246-485-00	CARBON 3.3K 5% 1/4W		R458	1-246-485-00	CARBON 3.3K 5% 1/4W	

## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
MF:  $\mu$ F, PF:  $\mu$ F

RESISTORS  
All resistors are in ohms  
F: nonflammable

COILS  
MMH: mH, UH:  $\mu$ H

## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
MF:  $\mu$ F, PF:  $\mu$ F

RESISTORS  
All resistors are in ohms  
F: nonflammable

COILS  
MMH: mH, UH:  $\mu$ H



BA FB FC FA

Ref.No	Part No	Description	Remark
R459	1-246-471-00	CARBON 820 5% 1/4W	
R460	1-214-148-00	METAL 4.7K 1% 1/4W	
R461	1-214-148-00	METAL 4.7K 1% 1/4W	
R462	1-246-505-00	CARBON 22K 5% 1/4W	
R463	1-246-501-00	CARBON 15K 5% 1/4W	
R464	1-246-481-00	CARBON 2.2K 5% 1/4W	
R465	1-246-481-00	CARBON 2.2K 5% 1/4W	
R466	1-246-470-00	CARBON 750 5% 1/4W	
R467	1-246-470-00	CARBON 750 5% 1/4W	
R468	1-246-483-00	CARBON 2.7K 5% 1/4W	
R469	1-246-483-00	CARBON 2.7K 5% 1/4W	
R470	1-246-471-00	CARBON 820 5% 1/4W	
R471	1-246-471-00	CARBON 820 5% 1/4W	
R472	1-246-471-00	CARBON 820 5% 1/4W	
R473	1-214-120-00	METAL 330 1% 1/4W	
R474	1-214-120-00	METAL 330 1% 1/4W	
R475	1-214-148-00	METAL 4.7K 1% 1/4W	
R476	1-214-148-00	METAL 4.7K 1% 1/4W	
R477	1-246-509-00	CARBON 33K 5% 1/4W	
R478	1-246-509-00	CARBON 33K 5% 1/4W	
R479	1-246-477-00	CARBON 1.5K 5% 1/4W	
R480	1-246-489-00	CARBON 4.7K 5% 1/4W	
R481	1-246-489-00	CARBON 4.7K 5% 1/4W	
R482	1-246-487-00	CARBON 3.9K 5% 1/4W	
R483	1-246-487-00	CARBON 3.9K 5% 1/4W	
R486	1-246-453-00	CARBON 150 5% 1/4W	
R487	1-246-497-00	CARBON 10K 5% 1/4W	
R488	1-246-468-00	CARBON 620 5% 1/4W	
R489	1-214-120-00	METAL 330 1% 1/4W	
R490	1-214-120-00	METAL 330 1% 1/4W	
R491	1-214-148-00	METAL 4.7K 1% 1/4W	
R492	1-214-148-00	METAL 4.7K 1% 1/4W	
R493	1-246-509-00	CARBON 33K 5% 1/4W	
R495	1-246-509-00	CARBON 33K 5% 1/4W	
R499	1-246-505-00	CARBON 22K 5% 1/4W	
VARIABLE RESISTOR			
RV250	1-224-644-XX	RES, ADJ, CARBON 4.7K	
RV251	1-226-819-00	RES, ADJ, CARBON 1K	
RV252	1-226-819-00	RES, ADJ, CARBON 1K	
RV253	1-226-819-00	RES, ADJ, CARBON 1K	
RV254	1-224-641-XX	RES, ADJ, CARBON 470	
RV255	1-226-819-00	RES, ADJ, CARBON 1K	
RV257	1-224-935-00	RES, ADJ, METAL FILM 200	
TRANSFORMER			
T250	1-425-831-00	COIL BPT-1	
T251	1-405-372-00	COIL BAT	
T252	1-425-831-00	COIL BPT-1B	
T253	1-405-733-00	COIL, OSCILLATOR, APC	
T254	1-425-927-00	TRANSFORMER, BANDPASS (BPT)	
T255	1-425-928-00	TRANSFORMER, DELAY ADJUSTING	
T256	1-404-081-00	TRANSFORMER, DELAY ADJUST	

## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

CAPACITORS  
MF:  $\mu$ F, PF:  $\mu$ P

RESISTORS  
All resistors are in ohms  
F: nonflammable

COILS  
MMH: mH, UH:  $\mu$ H

Ref.No	Part No	Description	Remark
T257	1-425-928-00	TRANSFORMER, DELAY ADJUSTING	
POST PIN			
TP1	1-536-354-00	POST PIN	
CRYSTAL			
X250	1-527-345-00	CRYSTAL, OSC	
X251	1-527-345-00	CRYSTAL, OSC	
*****			
*1-604-882-00 FB BOARD *****			
*1-533-087-00 HOLDER, FUSE 3-646-067-00 PURSE LOCK, T			
CAPACITOR			
C601	$\Delta$ 1-108-745-00	MYLAR 0.22MF 20% 300V	
C602	$\Delta$ 1-102-222-00	CERAMIC 0.001MF 20% 250V	
C603	$\Delta$ 1-102-222-00	CERAMIC 0.001MF 20% 250V	
CONNECTOR			
FB1	*1-506-348-XX	6P PLUG	
FB2	*1-506-347-21	4P PLUG	
FB3	*1-508-765-00	3P PLUG (M)	
FUSE			
F601	$\Delta$ 1-532-237-00	TIME-LAG FUSE 3.15A	
COIL			
L601	$\Delta$ 1-421-352-00	TRANSFORMER, FERRITE	
RESISTOR			
R601	$\Delta$ 1-202-725-00	COMPOSITION 3.3M 5% 1/2W	
THERMISTOR			
ATHP601	1-800-665-00	THERMISTOR	
*****			
*1-604-883-00 FC BOARD *****			
SWITCH			
S601	$\Delta$ 1-552-963-00	SWITCH, POWER/VOLATGE SELECT	
*****			
*A-1245-138-A FA BOARD, COMPLETE *****			
*1-533-087-00 HOLDER, FUSE			
*1-560-290-00 PLUG, CONNECTOR (2.5MM PITCH)			
*4-323-833-00 HEAT SINK, PIN OUT			
*4-335-911-00 HEAT SINK (G)			

Ref.No	Part No	Description	Remark
CAPACITOR			
C610	1-102-085-00	CERAMIC 0.0047MF 500V	
C611	1-102-085-00	CERAMIC 0.0047MF 500V	
C612	1-102-085-00	CERAMIC 0.0047MF 500V	
C613	1-102-085-00	CERAMIC 0.0047MF 500V	
C614	1-102-085-00	CERAMIC 0.0047MF 500V	
C615	1-125-186-00	ELECT (BLOCK) 560MF 200V	
C616	1-121-999-00	ELECT 10MF 160V	
C617	1-102-228-00	CERAMIC 470PF 10% 500V	
C618	1-121-757-00	ELECT 33MF 160V	
C620	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
C621	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
C622	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
C623	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
C624	1-123-339-00	ELECT 3300MF 20% 25V	
C625	1-123-329-00	ELECT 10MF 20% 25V	
C626	1-102-074-00	CERAMIC 0.001MF 10% 50V	
C627	1-123-337-00	ELECT 1000MF 20% 25V	
C628	1-123-338-00	ELECT 2200MF 20% 25V	
C629	1-123-329-00	ELECT 10MF 20% 25V	
C630	1-102-074-00	CERAMIC 0.001MF 10% 50V	
C631	1-123-337-00	ELECT 1000MF 20% 25V	
DIODE			
D610	=>8-719-911-55	DIODE U05G	
D611	=>8-719-911-55	DIODE U05G	
D612	=>8-719-911-55	DIODE U05G	
D613	=>8-719-911-55	DIODE U05G	
D615	8-719-102-91	DIODE RD10EN3	
D620	=>8-719-200-02	DIODE 10E2	
D621	=>8-719-200-02	DIODE 10E2	
D622	=>8-719-200-02	DIODE 10E2	
D623	=>8-719-200-02	DIODE 10E2	
D624	8-719-102-68	DIODE RD5.1EN2	
D625	8-719-102-68	DIODE RD5.1EN2	
D626	8-719-103-61	DIODE RD15JN2	
D627	8-719-103-61	DIODE RD15JN2	
CONNECTOR			
FA1	*1-506-371-00	2P PLUG (L)	
FA2	*1-508-765-00	3P PLUG (M)	
FA3	*1-508-765-00	3P PLUG (M)	
FA4	*1-506-371-00	2P PLUG (L)	
FA5	*1-508-767-00	5P PLUG	
FA6	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P	
FA7	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P	
FUSE			
F610	$\Delta$ 1-532-259-00	TIME-LAG FUSE 1.6A	
F611	$\Delta$ 1-532-259-00	TIME-LAG FUSE 1.6A	
F612	$\Delta$ 1-532-259-00	TIME-LAG FUSE 1.6A	
TRANSISTOR			
Q610	8-729-238-32	TRANSISTOR 2SC2383	
Q611	8-729-309-06	TRANSISTOR 2SC1890A	
Q620	8-729-177-43	TRANSISTOR 2SD774	
Q621	=>8-729-317-63	TRANSISTOR 2SD476A	

## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

CAPACITORS  
MF:  $\mu$ F, PF:  $\mu$ P

RESISTORS  
All resistors are in ohms  
F: nonflammable

COILS  
MMH: mH, UH:  $\mu$ H

F

Ref.No	Part No	Description	Remark
Q622	=>8-729-178-54	TRANSISTOR 2SC2785	
Q623	8-729-103-43	TRANSISTOR 2SB734	
Q624	=>8-729-385-81	TRANSISTOR 2SB858	
Q625	=>8-729-117-54	TRANSISTOR 2SA1175	
Q626	=>8-729-178-54	TRANSISTOR 2SC2785	
Q627	=>8-729-117-54	TRANSISTOR 2SA1175	
Q640	8-729-309-06	TRANSISTOR 2SC1890A	
Q641	=>8-729-178-54	TRANSISTOR 2SC2785	
RESISTOR			
R610	1-202-661-00	COMPOSITION 4.7M 5% 1/2W	
R611	1-213-159-00	METAL 22K 5% 1W	F
R612	1-213-161-00	METAL 33K 5% 1W	F
R613	1-213-161-00	METAL 33K 5% 1W	F
R614	1-246-477-00	CARBON 1.5K 5% 1/4W	
R615	1-246-489-00	CARBON 4.7K 5% 1/4W	
R616	1-246-471-00	CARBON 820 5% 1/4W	
R616	1-246-472-00	CARBON 910 5% 1/4W	
R616	1-246-473-00	CARBON 1K 5% 1/4W	
R616	1-246-475-00	CARBON 1.2K 5% 1/4W	
R616	1-246-477-00	CARBON 1.5K 5% 1/4W	
R616	1-246-479-00	CARBON 1.8K 5% 1/4W	
R617	1-246-514-00	CARBON 51K 5% 1/4W	
R620	1-246-481-00	CARBON 2.2K 5% 1/4W	
R621	1-246-493-00	CARBON 6.8K 5% 1/4W	
R622	1-246-477-00	CARBON 1.5K 5% 1/4W	
R623	1-246-499-00	CARBON 12K 5% 1/4W	
R624	1-246-492-00	CARBON 6.2K 5% 1/4W	
R625	1-246-481-00	CARBON 2.2K 5% 1/4W	
R626	1-246-493-00	CARBON 6.8K 5% 1/4W	
R627	1-246-477-00	CARBON 1.5K 5% 1/4W	
R628	1-246-492-00	CARBON 6.2K 5% 1/4W	
R629	1-246-499-00	CARBON 12K 5% 1/4W	
R630	1-246-477-00	CARBON 1.5K 5% 1/4W	
R630	1-246-479-00	CARBON 1.8K 5% 1/4W	
R630	1-246-480-00	CARBON 2K 5% 1/4W	
R630	1-246-481-00	CARBON 2.2K 5% 1/4W	
R630	1-246-482-00	CARBON 2.4K 5% 1/4W	
R630	1-246-483-00	CARBON 2.7K 5% 1/4W	
R630	1-246-484-00	CARBON 3K 5% 1/4W	
R631	1-246-477-00	CARBON 1.5K 5% 1/4W	
R631	1-246-479-00	CARBON 1.8K 5% 1/4W	
R631	1-246-480-00	CARBON 2K 5% 1/4W	
R631	1-246-481-00	CARBON 2.2K 5% 1/4W	
R631	1-246-482-00	CARBON 2.4K 5% 1/4W	
R631	1-246-483-00	CARBON 2.7K 5% 1/4W	
R631	1-246-484-00	CARBON 3K 5% 1/4W	
R632	1-217-305-00	WIREWOUND 39 10% 5W	F
R633	1-246-489-00	CARBON 4.7K 5% 1/4W	
R634	1-246-489-00	CARBON 4.7K 5% 1/4W	
R635	1-247-037-00	CARBON 390 5% 1/8W	F
R640	1-213-161-00	METAL 33K 5% 1W	F
R641	1-213-161-00	METAL 33K 5% 1W	F



F A C D

Ref.No	Part No	Description	Remark
R642	1-246-497-00	CARBON 10K 5% 1/4W	
R643	1-246-521-00	CARBON 100K 5% 1/4W	
R644	1-246-509-00	CARBON 33K 5% 1/4W	
R645	1-246-521-00	CARBON 100K 5% 1/4W	
R646	1-246-497-00	CARBON 10K 5% 1/4W	
R647	1-246-497-00	CARBON 10K 5% 1/4W	

## VARIABLE RESISTOR

RV610	1-226-819-00	RES, ADJ, CARBON 1K
RV620	1-226-819-00	RES, ADJ, CARBON 1K
RV621	1-226-819-00	RES, ADJ, CARBON 1K

## THERMISTOR

TH610	1-800-070-XX	THERMISTOR TH-4700
-------	--------------	--------------------

## POST PIN

TP91	1-536-354-00	POST PIN
TP92	1-536-354-00	POST PIN
TP93	1-536-354-00	POST PIN

## A:1330-316-A C BOARD, COMPLETE

A:1-509-845-00	CONNECTOR ASSY, 3P
1-526-086-XX	SOCKET, CRT
A:1-555-037-00	CONNECTOR ASSY, MINIATURE 3P
A:1-604-888-00	PC BOARD, C

## CAPACITOR

C780	1-129-739-00	FILM 0.1MF 20% 630V
C781	1-102-327-00	CERAMIC 330PF 15% 1.5KV
C782	1-108-433-00	MYLAR 0.1MF 10% 200V

## DIODE

D780	8-719-926-20	DIODE ERB26-20
------	--------------	----------------

## NEON LAMP

NL780	1-519-108-XX	LAMP, NEON ASSY
NL781	1-519-108-XX	LAMP, NEON ASSY

## RESISTOR

R780	1-202-581-00	COMPOSITION 2.2K 5% 1/2W
R781	1-202-581-00	COMPOSITION 2.2K 5% 1/2W
R782	1-202-581-00	COMPOSITION 2.2K 5% 1/2W
R783	1-202-605-00	COMPOSITION 22K 5% 1/2W
R784	1-202-545-15	COMPOSITION 68 5% 1/2W
R785	1-202-667-00	COMPOSITION 8.2M 5% 1/2W
R786	1-202-629-00	COMPOSITION 220K 5% 1/2W
R787	1-202-637-00	COMPOSITION 470K 5% 1/2W
R788	1-202-639-00	COMPOSITION 560K 5% 1/2W
R789	1-202-597-00	COMPOSITION 10K 5% 1/2W

## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
MF:  $\mu$ F, PF:  $\mu$ PF

RESISTORS  
All resistors are in ohms  
F: nonflammable

COILS  
MMH: mH, UH:  $\mu$ H

<u>Ref.No</u>	<u>Part No</u>	<u>Description</u>	<u>Remark</u>
C837	1-102-030-00	CERAMIC 330PF 10% 500V	
C838	1-108-369-00	MYLAR 0.0022MF 10% 100V	
C839	1-123-381-00	ELECT 2.2MF 20% 50V	
C840	1-123-381-00	ELECT 2.2MF 20% 50V	
C841	1-108-385-00	MYLAR 0.047MF 10% 100V	

C842	1-102-232-00	CERAMIC 470PF 20% 500V
C843	1-130-330-00	FILM 1.4MF 5% 200V
C844	1-130-157-00	FILM 1MF 5% 200V
C845	1-130-179-00	FILM 2MF 5% 200V
C846	1-108-389-00	MYLAR 0.1MF 10% 100V

C847	1-129-886-00	FILM 0.0068MF 5% 1.5KV
C848	1-123-333-00	ELECT 100MF 20% 16V
C849	1-123-333-00	ELECT 100MF 20% 16V
C850	1-123-362-00	ELECT 330MF 20% 50V
C851	1-123-362-00	ELECT 330MF 20% 50V

C852	1-123-362-00	ELECT 330MF 20% 50V
C853	1-102-219-00	CERAMIC 680PF 20% 1KV
C854	1-123-253-00	ELECT 22MF 20% 160V
C860	1-123-330-00	ELECT 22MF 20% 16V
C861	1-123-329-00	ELECT 10MF 20% 25V

C864	1-108-423-00	MYLAR 0.015MF 10% 200V
C865	1-123-318-00	ELECT 33MF 20% 16V
C866	1-108-377-00	MYLAR 0.01MF 10% 100V
C867	1-108-393-00	MYLAR 0.22MF 10% 100V
C870	1-108-385-00	MYLAR 0.047MF 10% 100V

C871	1-108-383-00	MYLAR 0.033MF 10% 100V
C872	1-108-385-00	MYLAR 0.047MF 10% 100V
C873	1-108-385-00	MYLAR 0.047MF 10% 100V
C874	1-121-806-00	ELECT 10MF 20% 16V
C875	1-108-393-00	MYLAR 0.22MF 10% 100V

C877	1-123-330-00	ELECT 22MF 20% 16V
C878	1-130-157-00	FILM 1MF 5% 200V
C879	1-102-219-00	CERAMIC 680PF 20% 1KV
C880	1-102-219-00	CERAMIC 680PF 20% 1KV
C881	1-123-331-00	ELECT 33MF 20% 25V

C882	1-108-421-00	MYLAR 0.01MF 10% 200V
C885	1-123-333-00	ELECT 100MF 20% 25V
C886	1-101-845-00	CERAMIC 0.001MF 500V
C888	1-102-125-00	CERAMIC 0.0047MF 10% 50V
C889	1-101-006-00	CERAMIC 0.047MF 50V

C890	1-101-006-00	CERAMIC 0.047MF 50V
------	--------------	---------------------

## CONNECTOR

D1	A:1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P
D2	A:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P
D3	A:1-508-767-00	5P PLUG
D4	A:1-508-765-00	3P PLUG (M)
D5	A:1-508-765-00	3P PLUG (M)
D6	A:1-508-765-00	3P PLUG (M)
D7	A:1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)
D8	A:1-508-765-00	3P PLUG (M)
D9	A:1-506-347-21	4P PLUG
D10	A:1-506-348-XX	3P PLUG (L)

## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
MF:  $\mu$ F, PF:  $\mu$ PF

RESISTORS  
All resistors are in ohms  
F: nonflammable

COILS  
MMH: mH, UH:  $\mu$ H



D

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
L809	1-421-364-00	COIL, FERRITE CHOKE PCC		R580	1-246-489-00	CARBON 4.7K 5% 1/4W	
L810	1-459-111-00	COIL, DRAM CORE (CDI) 10MH		R581	1-212-364-00	METAL 2.2 5% 1W F	
L811	1-407-780-00	COIL, SPOOK CHOKE 3.3MH		R582	1-213-129-00	METAL 68 5% 1W F	
L812	1-407-780-00	COIL, SPOOK CHOKE 3.3MH		R583	1-246-481-00	CARBON 2.2K 5% 1/4W	
L813	1-408-243-00	MICRO INDUCTOR 12MMH		R584	1-246-497-00	CARBON 10K 5% 1/4W	
L814	1-408-160-00	MICRO INDUCTOR 15MMH		R585	1-246-469-00	CARBON 680 5% 1/4W	
TRANSISTOR				R586	1-246-499-00	CARBON 12K 5% 1/4W	
Q516	8-763-613-00	TRANSISTOR 2SC1810		R587	1-246-481-00	CARBON 2.2K 5% 1/4W	
Q801	=>8-729-178-54	TRANSISTOR 2SC2785		R590	1-246-537-00	CARBON 470K 5% 1/4W	
Q802	=>8-729-178-54	TRANSISTOR 2SC2785		R591	1-246-497-00	CARBON 10K 5% 1/4W	
Q803	8-765-012-20	TRANSISTOR 2SC1811		R592	1-246-497-00	CARBON 10K 5% 1/4W	
Q804	=>8-729-341-34	TRANSISTOR 2SC1413A		R801	1-246-489-00	CARBON 4.7K 5% 1/4W	
Q805	=>8-729-178-54	TRANSISTOR 2SC2785		R804	1-206-467-00	METAL 15 5% 2W F	
Q806	8-729-117-54	TRANSISTOR 2SA1175		R805	1-246-463-00	CARBON 390 5% 1/4W	
Q808	8-729-313-82	TRANSISTOR 2SD1138		R807	1-246-491-00	CARBON 5.6K 5% 1/4W	
Q809	8-729-387-36	TRANSISTOR 2SC867A		R808	1-246-518-00	CARBON 75K 5% 1/4W	
Q810	=>8-729-195-92	TRANSISTOR 2SC2959		R809	1-246-521-00	CARBON 100K 5% 1/4W	
Q813	=>8-729-178-54	TRANSISTOR 2SC2785		R810	1-246-505-00	CARBON 22K 5% 1/4W	
Q814	=>8-729-178-54	TRANSISTOR 2SC2785		R811	1-211-427-00	CARBON 100 5% 1/8W F	
Q815	=>8-729-178-54	TRANSISTOR 2SC2785		R812	1-246-513-00	CARBON 47K 5% 1/4W	
Q816	8-760-612-10	TRANSISTOR 2SA773-12		R813	1-246-497-00	CARBON 10K 5% 1/4W	
Q817	=>8-729-178-54	TRANSISTOR 2SC2785		R820	1-246-473-00	CARBON 1K 5% 1/4W	
Q818	=>8-729-178-54	TRANSISTOR 2SC2785		R821	1-246-481-00	CARBON 2.2K 5% 1/4W	
Q819	8-726-420-00	THYRISTOR SG264A		R822	1-246-473-00	CARBON 1K 5% 1/4W	
Q820	=>8-729-341-34	TRANSISTOR 2SC1413A		R823	1-246-494-00	CARBON 7.5K 5% 1/4W	
Q821	8-729-117-54	TRANSISTOR 2SA1175		R824	1-246-504-00	CARBON 20K 5% 1/4W	
Q822	8-729-117-54	TRANSISTOR 2SA1175		R825	1-246-491-00	CARBON 5.6K 5% 1/4W	
Q823	8-729-117-54	TRANSISTOR 2SA1175		R826	1-246-425-00	CARBON 10 5% 1/4W	
Q824	8-729-313-82	TRANSISTOR 2SD1138		R827	1-213-129-00	METAL 68 5% 1W F	
Q825	8-729-386-12	TRANSISTOR 2SB861		R828	1-246-479-00	CARBON 1.8K 5% 1/4W	
Q826	=>8-729-195-92	TRANSISTOR 2SC2959		R829	1-213-131-00	METAL 100 5% 1W F	
Q827	=>8-729-178-54	TRANSISTOR 2SC2785		R830	1-246-979-00	CARBON 1.2 5% 1/8W F	
Q828	=>8-719-901-24	THYRISTOR CV12E		R831	1-246-979-00	CARBON 1.2 5% 1/8W F	
Q829	=>8-719-901-24	THYRISTOR CV12E		R832	1-211-409-00	CARBON 10 5% 1/8W F	
Q831	=>8-729-178-54	TRANSISTOR 2SC2785		R833	1-206-451-00	METAL 3.3 5% 2W F	
Q832	=>8-729-178-54	TRANSISTOR 2SC2785		R834	1-213-139-00	METAL 470 5% 1W F	
Q833	=>8-729-306-92	TRANSISTOR 2SD669A		R835	1-213-143-00	METAL 1K 5% 1W F	
Q834	=>8-729-304-92	TRANSISTOR 2SB649A		R837	1-246-507-00	CARBON 27K 5% 1/4W	
Q871	8-729-309-06	TRANSISTOR 2SC1890A		R838	1-246-507-00	CARBON 27K 5% 1/4W	
RESISTOR				R839	1-246-487-00	CARBON 3.9K 5% 1/4W	
R556	1-206-664-00	METAL 1K 5% 2W F		R840	1-246-487-00	CARBON 3.9K 5% 1/4W	
R571	1-246-449-00	CARBON 100 5% 1/4W		R841	1-246-486-00	CARBON 3.6K 5% 1/4W	
R572	1-213-144-00	METAL 1.2K 5% 1W F		R842	1-246-497-00	CARBON 10K 5% 1/4W	
R573	1-206-680-00	METAL 4.7K 5% 2W F		R843	1-246-473-00	CARBON 1K 5% 1/4W	
R574	1-246-475-00	CARBON 1.2K 5% 1/4W		R844	1-246-463-00	CARBON 390 5% 1/4W	
R575	1-246-475-00	CARBON 1.2K 5% 1/4W		R845	1-246-521-00	CARBON 100K 5% 1/4W	
R576	1-246-515-00	CARBON 56K 5% 1/4W		R846	1-246-487-00	CARBON 3.9K 5% 1/4W	
R577	1-246-481-00	CARBON 2.2K 5% 1/4W		R847	1-246-501-00	CARBON 15K 5% 1/4W	
R578	1-246-473-00	CARBON 1K 5% 1/4W		R849	1-246-467-00	CARBON 560 5% 1/4W	
R579	1-206-680-00	METAL 4.7K 5% 2W F		R848	1-246-485-00	CARBON 3.3K 5% 1/4W	
NOTE:				R850	1-246-489-00	CARBON 4.7K 5% 1/4W	
The components identified by shading and mark $\Delta$ are critical for safety. Replace only with part number specified.				R851	1-212-376-00	METAL 22 5% 1W F	
• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.				R852	1-206-481-00	METAL 56 5% 2W F	
• Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.							

NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
• MF :  $\mu$ F, PF :  $\mu$ PF

RESISTORS  
• All resistors are in ohms  
• F : nonflammable

COILS  
• MMH : mH, UH :  $\mu$ H

D

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
R853	1-213-146-00	METAL 1.8K 5% 1W F		TRANSFORMER			
R854	1-206-672-00	METAL 2.2K 5% 2W F		T801	1-437-078-00	TRANSFORMER, HORIZONTAL DRIVE	
R855	1-206-459-00	METAL 6.8 5% 2W F		T802	1-437-078-00	TRANSFORMER, HORIZONTAL DRIVE	
R857	1-212-361-00	METAL 1.2 5% 1W F		T803	1-439-282-00	TRANSFORMER, FERRITE (LOT)	
R858	1-212-364-00	METAL 2.2 5% 1W F		T804	1-439-241-00	TRANSFORMER, HORIZONTAL OUTPUT	
R859	1-213-130-00	METAL 82 5% 1W F		*****			
R860	1-246-979-00	CARBON 1.2 5% 1/8W F		A-1347-003-A V BOARD, COMPLETE			
R861	1-246-979-00	CARBON 1.2 5% 1/8W F		*****			
R862	1-246-979-00	CARBON 1.2 5% 1/8W F		CAPACITOR			
R863	1-246-783-00	CARBON 1K 5% 1/8W F		C51	1-123-333-00	ELECT 100MF 20% 25V	
R864	1-246-497-00	CARBON 10K 5% 1/4W		C52	1-123-329-00	ELECT 10MF 20% 25V	
R865	1-246-979-00	CARBON 1.2 5% 1/8W F		C53	1-123-332-00	ELECT 47MF 20% 25V	
R866	1-246-449-00	CARBON 100 5% 1/4W		C54	1-101-006-00	CERAMIC 0.047MF 50V	
R867	1-211-409-00	CARBON 10 5% 1/8W F		C55	1-123-331-00	ELECT 33MF 20% 25V	
R871	1-246-451-00	CARBON 120 5% 1/4W		C56	1-101-004-00	CERAMIC 0.01MF 50V	
R872	1-246-505-00	CARBON 22K 5% 1/4W		C57	1-123-333-00	ELECT 100MF 20% 25V	
R873	1-246-497-00	CARBON 10K 5% 1/4W		C58	1-123-329-00	ELECT 10MF 20% 25V	
R874	1-246-481-00	CARBON 2.2K 5% 1/4W		C59	1-123-332-00	ELECT 47MF 20% 25V	
R875	1-246-501-00	CARBON 15K 5% 1/4W		C60	1-101-006-00	CERAMIC 0.047MF 50V	
R876	1-246-481-00	CARBON 2.2K 5% 1/4W		C61	1-123-331-00	ELECT 33MF 20% 25V	
R877	1-246-458-00	CARBON 240 5% 1/4W		C62	1-123-331-00	ELECT 33MF 20% 25V	
R878	1-246-481-00	CARBON 2.2K 5% 1/4W		C63	1-101-004-00	CERAMIC 0.01MF 50V	
R879	1-246-981-00	CARBON 4.7 5% 1/8W F		C64	1-123-331-00	ELECT 33MF 20% 25V	
R880	1-246-981-00	CARBON 4.7 5% 1/8W F		C65	1-123-333-00	ELECT 100MF 20% 25V	
R881	1-246-979-00	CARBON 1.2 5% 1/8W F		C66	1-123-329-00	ELECT 10MF 20% 25V	
R882	1-246-457-00	CARBON 220 5% 1/4W		C67	1-123-332-00	ELECT 47MF 20% 25V	
R883	1-246-491-00	CARBON 5.6K 5% 1/4W		C68	1-123-331-00	ELECT 33MF 20% 25V	
R885	1-246-491-00	CARBON 5.6K 5% 1/4W		C69	1-101-006-00	CERAMIC 0.047MF 50V	
R886	1-246-497-00	CARBON 10K 5% 1/4W		C70	1-123-331-00	ELECT 33MF 20% 25V	
R887	1-246-491-00	CARBON 5.6K 5% 1/4W		C71	1-102-529-00	CERAMIC 100PF 5% 50V	
R888	1-246-487-00	CARBON 3.9K 5% 1/4W		C72	1-123-329-00	ELECT 10MF 20% 25V	
R889	1-213-141-00	METAL 680 5% 1W F		C73	1-123-332-00	ELECT 47MF 20% 25V	
R890	1-246-473-00	CARBON 1K 5% 1/4W		C74	1-123-332-00	ELECT 47MF 20% 25V	
R891	1-214-150-00	METAL 5.6K 1% 1/4W		C75	1-123-331-00	ELECT 33MF 20% 25V	
R892	1-214-156-00	METAL 10K 1% 1/4W		C76	1-123-331-00	ELECT 33MF 20% 25V	
R893	1-246-491-00	CARBON 5.6K 5% 1/4W		C77	1-123-331-00	ELECT 33MF 20% 25V	
VARIABLE RESISTOR				C78	1-123-332-00	ELECT 47MF 20% 16V	
RV801	1-224-646-XX	RES, ADJ, CARBON 22K		C79	1-101-006-00	CERAMIC 0.047MF 50V	
RV802	1-224-648-XX	RES, ADJ, CARBON 100K		C81	1-102-851-00	CERAMIC 15PF 5% 50V	
RV803	1-224-646-XX	RES, ADJ, CARBON 22K		C82	1-102-518-00	CERAMIC 33PF 5% 50V	
RV804	1-224-647-XX	RES, ADJ, CARBON 47K		C83	1-123-356-00	ELECT 10MF 20% 16V	
RV805	1-224-648-XX	RES, ADJ, CARBON 100K		C84	1-101-003-00	CERAMIC 0.0047MF 50V	
RV806	1-224-641-XX	RES, ADJ, CARBON 470		C85	1-108-242-00	MYLAR 0.022MF 10% 50V	
RV808	1-224-641-XX	RES, ADJ, CARBON 470		C86	1-123-332-00	ELECT 47MF 20% 16V	
RV809	1-223-102-00	RES, ADJ, WIREWOUND 120		C87	1-123-330-00	ELECT 22MF 20% 16V	
SPARK GAP				C88	1-102-074-00	CERAMIC 0.001MF 10% 50V	
SG801	1-519-030-00	DISCHARGE ELEMENT		C89	1-102-074-00	CERAMIC 0.001MF 10% 50V	
NOTE:				C90	1-108-579-00	MYLAR 0.01MF 5% 50V	
The components identified by shading and mark $\Delta$ are critical for safety. Replace only with part number specified.				C91	1-108-845-00	MYLAR 0.047MF 10% 50V	
• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.				C92	1-102-973-00	CERAMIC 100PF 5% 50V	
• Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.							

NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
• MF :  $\mu$ F, PF :  $\mu$ PF

RESISTORS  
• All resistors are in ohms  
• F : nonflammable

COILS  
• MMH : mH, UH :  $\mu$ H



Ref.No	Part No	Description			Remark	Ref.No	Part No	Description			Remark
C94	1-108-567-00	MYLAR	0.0033MF	5%	50V	C150	1-101-006-00	CERAMIC	0.047MF		50V
C95	1-108-579-00	MYLAR	0.01MF	5%	50V	C151	1-101-006-00	CERAMIC	0.047MF		50V
C96	1-123-356-00	ELECT	10MF	20%	16V	C152	1-101-006-00	CERAMIC	0.047MF		50V
C97	1-102-114-00	CERAMIC	470PF	10%	50V	C153	1-101-006-00	CERAMIC	0.047MF		50V
C98	1-108-845-00	MYLAR	0.047MF	10%	50V	C154	1-101-006-00	CERAMIC	0.047MF		50V
C100	1-102-978-00	CERAMIC	220PF	5%	50V	C155	1-101-006-00	CERAMIC	0.047MF		50V
C101	1-102-971-00	CERAMIC	82PF	5%	50V	C156	1-123-332-00	ELECT	47MF	20%	25V
C102	1-102-529-00	CERAMIC	100PF	5%	50V	C157	1-123-356-00	ELECT	10MF	20%	16V
C103	1-102-529-00	CERAMIC	100PF	5%	50V	C160	1-101-006-00	CERAMIC	0.047MF		50V
C104	1-102-973-00	CERAMIC	100PF	5%	50V	C161	1-101-006-00	CERAMIC	0.047MF		50V
C105	1-101-361-00	CERAMIC	150PF	5%	50V	C501	1-108-389-00	MYLAR	0.1MF	10%	100V
C106	1-102-978-00	CERAMIC	220PF	5%	50V	C502	1-102-074-00	CERAMIC	0.001MF	10%	50V
C107	1-102-531-00	CERAMIC	150PF	5%	50V	C503	1-108-389-00	MYLAR	0.1MF	10%	100V
C108	1-102-531-00	CERAMIC	150PF	5%	50V	C504	1-123-381-00	ELECT	2.2MF	20%	50V
C109	1-102-978-00	CERAMIC	220PF	5%	50V	C506	1-130-457-00	FILM	0.1MF	5%	100V
C110	1-102-531-00	CERAMIC	150PF	5%	50V	C507	1-108-381-00	MYLAR	0.022MF	10%	100V
C111	1-102-531-00	CERAMIC	150PF	5%	50V	C508	1-108-385-00	MYLAR	0.047MF	10%	100V
C112	1-102-978-00	CERAMIC	220PF	5%	50V	C510	1-108-383-00	MYLAR	0.033MF	10%	100V
C113	1-102-529-00	CERAMIC	100PF	5%	50V	C511	1-108-373-00	MYLAR	0.0047MF	10%	100V
C114	1-102-978-00	CERAMIC	220PF	5%	50V	C512	1-123-380-00	ELECT	1MF	20%	50V
C115	1-102-531-00	CERAMIC	150PF	5%	50V	C513	1-123-381-00	ELECT	2.2MF	20%	50V
C116	1-101-006-00	CERAMIC	0.047MF		50V	C514	1-108-381-00	MYLAR	0.022MF	10%	100V
C118	1-101-006-00	CERAMIC	0.047MF		50V	C515	1-108-381-00	MYLAR	0.022MF	10%	100V
C119	1-102-978-00	CERAMIC	220PF	5%	50V	C516	1-102-114-00	CERAMIC	470PF	10%	50V
C120	1-101-006-00	CERAMIC	0.047MF		50V	C517	1-123-369-00	ELECT	4.7MF	20%	50V
C121	1-101-006-00	CERAMIC	0.047MF		50V	C518	1-123-332-00	ELECT	47MF	20%	16V
C122	1-101-006-00	CERAMIC	0.047MF		50V	C519	1-106-196-00	MYLAR	0.01MF	5%	100V
C123	1-102-978-00	CERAMIC	220PF	5%	50V	C520	1-129-701-00	FILM	0.01MF	5%	100V
C124	1-102-978-00	CERAMIC	220PF	5%	50V	C521	1-108-365-00	MYLAR	0.001MF	10%	100V
C125	1-102-978-00	CERAMIC	220PF	5%	50V	C522	1-102-983-00	CERAMIC	220PF	10%	50V
C126	1-102-978-00	CERAMIC	220PF	5%	50V	C524	1-101-004-00	CERAMIC	0.01MF		50V
C127	1-102-978-00	CERAMIC	220PF	5%	50V	C525	1-101-004-00	CERAMIC	0.01MF		50V
C128	1-102-852-00	CERAMIC	47PF	5%	50V	C526	1-101-004-00	CERAMIC	0.01MF		50V
C130	1-123-333-00	ELECT	100MF	20%	16V	C527	1-101-004-00	CERAMIC	0.01MF		50V
C131	1-123-333-00	ELECT	100MF	20%	16V	C528	1-123-379-00	ELECT	0.47MF	20%	50V
C132	1-123-333-00	ELECT	100MF	20%	16V	C531	1-108-381-00	MYLAR	0.022MF	10%	100V
C133	1-123-333-00	ELECT	100MF	20%	16V	C538	1-121-806-00	ELECT	10MF	20%	16V
C134	1-123-333-00	ELECT	100MF	20%	16V	C539	1-121-806-00	ELECT	10MF	20%	16V
C135	1-101-006-00	CERAMIC	0.047MF		50V	C540	1-121-806-00	ELECT	10MF	20%	16V
C136	1-101-006-00	CERAMIC	0.047MF		50V	C541	1-101-004-00	CERAMIC	0.01MF		50V
C137	1-101-006-00	CERAMIC	0.047MF		50V	C542	1-101-004-00	CERAMIC	0.01MF		50V
C138	1-101-006-00	CERAMIC	0.047MF		50V	C543	1-101-004-00	CERAMIC	0.01MF		50V
C139	1-101-006-00	CERAMIC	0.047MF		50V	C544	1-102-529-00	CERAMIC	100PF	5%	50V
C140	1-101-006-00	CERAMIC	0.047MF		50V	C545	1-102-529-00	CERAMIC	100PF	5%	50V
C141	1-101-006-00	CERAMIC	0.047MF		50V	C546	1-108-385-00	MYLAR	0.047MF	10%	100V
C142	1-101-006-00	CERAMIC	0.047MF		50V	C547	1-123-356-00	ELECT	10MF	20%	16V
C143	1-101-006-00	CERAMIC	0.047MF		50V	C548	1-121-806-00	ELECT	10MF	20%	16V
C144	1-101-006-00	CERAMIC	0.047MF		50V	C550	1-102-529-00	CERAMIC	100PF	5%	50V
C145	1-101-006-00	CERAMIC	0.047MF		50V	C551	1-106-196-00	MYLAR	0.01MF	5%	100V
C146	1-101-006-00	CERAMIC	0.047MF		50V	C553	1-101-003-00	CERAMIC	0.0047MF		50V
C147	1-101-006-00	CERAMIC	0.047MF		50V	C555	1-101-003-00	CERAMIC	0.0047MF		50V
C148	1-101-006-00	CERAMIC	0.047MF		50V	C556	1-123-333-00	ELECT	100MF	20%	16V
C149	1-101-006-00	CERAMIC	0.047MF		50V	C557	1-108-383-00	MYLAR	0.033MF	10%	100V

NOTE:

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

- Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
• MF :  $\mu F$ , PF :  $\mu\mu F$

RESISTORS

- All resistors are in ohms
- F : nonflammable

COILS  
• MMH : mH, UH :  $\mu$ H

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Rem:
C558	1-101-006-00	CERAMIC	0.047MF	50V	IC67	8-751-300-00	IC CX130
C584	1-101-003-00	CERAMIC	0.0047MF	50V	IC68 =>	8-759-145-58	IC UPC4558C
C117A	1-102-531-00	CERAMIC	150PF	5%	50V	IC501=>	8-759-145-58 IC UPC4558C
C117B	1-102-529-00	CERAMIC	100PF	5%	50V	IC502=>	8-759-145-58 IC UPC4558C
						IC503=>	8-759-145-58 IC UPC4558C
<u>DIODE</u>							
D51	=>8-719-911-19	DIODE	1SS119		IC504	8-751-580-00	IC CX158
D52	=>8-719-911-19	DIODE	1SS119		IC505	8-759-245-28	IC TC4528BP
D53	=>8-719-911-19	DIODE	1SS119		<u>COIL</u>		
D54	=>8-719-911-19	DIODE	1SS119		L51	1-407-709-00	MICRO INDUCTOR 220UH
D55	=>8-719-911-19	DIODE	1SS119		L52	1-407-709-00	MICRO INDUCTOR 220UH
D56	=>8-719-911-19	DIODE	1SS119		L501	1-408-231-00	MICRO INDUCTOR 1MMH
D57	=>8-719-911-19	DIODE	1SS119		L502	1-408-247-00	MICRO INDUCTOR 33MMH
D58	=>8-719-911-19	DIODE	1SS119		<u>TRANSISTOR</u>		
D59	=>8-719-911-19	DIODE	1SS119		Q51	8-724-375-01	TRANSISTOR 2SC403C
D60	=>8-719-911-19	DIODE	1SS119		Q52	8-724-375-01	TRANSISTOR 2SC403C
D61	=>8-719-911-19	DIODE	1SS119		Q53	8-724-375-01	TRANSISTOR 2SC403C
D62	=>8-719-911-19	DIODE	1SS119		Q54	8-724-375-01	TRANSISTOR 2SC403C
D63	=>8-719-911-19	DIODE	1SS119		Q55	8-724-375-01	TRANSISTOR 2SC403C
D64	=>8-719-911-19	DIODE	1SS119				
D65	=>8-719-911-19	DIODE	1SS119		Q56	8-724-375-01	TRANSISTOR 2SC403C
D66	=>8-719-911-19	DIODE	1SS119		Q57	8-724-375-01	TRANSISTOR 2SC403C
D69	=>8-719-911-19	DIODE	1SS119		Q58	8-724-375-01	TRANSISTOR 2SC403C
D501	=>8-719-911-19	DIODE	1SS119		Q59	8-724-375-01	TRANSISTOR 2SC403C
D502	=>8-719-911-19	DIODE	1SS119		Q60	8-724-375-01	TRANSISTOR 2SC403C
D503	=>8-719-911-19	DIODE	1SS119				
D504	=>8-719-911-19	DIODE	1SS119		Q61	8-724-375-01	TRANSISTOR 2SC403C
D505	=>8-719-911-19	DIODE	1SS119		Q62	8-729-384-48	TRANSISTOR 2SA844
D506	=>8-719-911-19	DIODE	1SS119		Q63	8-724-375-01	TRANSISTOR 2SC403C
D507	=>8-719-911-19	DIODE	1SS119		Q64	8-729-384-48	TRANSISTOR 2SA844
D510	=>8-719-911-19	DIODE	1SS119		Q65	8-724-375-01	TRANSISTOR 2SC403C
D511	=>8-719-422-21	DIODE	1T22AM		Q66	8-724-375-01	TRANSISTOR 2SC403C
D512	=>8-719-422-21	DIODE	1T22AM		Q67	8-724-375-01	TRANSISTOR 2SC403C
D513	=>8-719-911-19	DIODE	1SS119		Q68	8-724-375-01	TRANSISTOR 2SC403C
D514	=>8-719-911-19	DIODE	1SS119		Q69	8-724-375-01	TRANSISTOR 2SC403C
					Q70	8-729-384-48	TRANSISTOR 2SA844
<u>IC</u>							
IC51	8-759-240-24	IC	TC4024BP		Q71	8-729-384-48	TRANSISTOR 2SA844
IC52	8-759-240-11	IC	TC4011BP		Q72	8-729-384-48	TRANSISTOR 2SA844
IC53	8-759-240-11	IC	TC4011BP		Q73	8-724-375-01	TRANSISTOR 2SC403C
IC54	8-759-240-23	IC	TC4023BP		Q74	8-724-375-01	TRANSISTOR 2SC403C
IC55	8-759-240-11	IC	TC4011BP		Q75	8-724-375-01	TRANSISTOR 2SC403C
IC56	8-759-240-01	IC	TC4001BP				
IC57	8-759-245-20	IC	TC4520BP		Q76	8-729-384-48	TRANSISTOR 2SA844
IC58	8-759-240-11	IC	TC4011BP		Q78	8-729-384-48	TRANSISTOR 2SA844
IC59	8-759-240-11	IC	TC4011BP		Q79	8-729-384-48	TRANSISTOR 2SA844
IC60	8-759-240-11	IC	TC4011BP		Q80	8-724-375-01	TRANSISTOR 2SC403C
IC61	8-759-240-11	IC	TC4011BP		Q81	8-724-375-01	TRANSISTOR 2SC403C
IC62	=>8-759-245-28	IC	TC4528BP				
IC63	=>8-759-245-28	IC	TC4528BP		Q82	8-729-384-48	TRANSISTOR 2SA844
IC64	=>8-759-245-28	IC	TC4528BP		Q83	8-729-384-48	TRANSISTOR 2SA844
IC65	=>8-759-245-28	IC	TC4528BP		Q84	8-729-384-48	TRANSISTOR 2SA844
IC66	8-751-300-00	IC	CX130		Q86	8-724-375-01	TRANSISTOR 2SC403C
					Q87	8-724-375-01	TRANSISTOR 2SC403C
					Q501	=>8-719-117-54	TRANSISTOR 2SA1175
					Q502	=>8-719-117-54	TRANSISTOR 2SA1175
					Q503	=>8-729-178-54	TRANSISTOR 2SC2785

**NOTE:**

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
• MF :  $\mu F$ , PF :  $\mu\mu F$

RESISTORS

- All resistors are in ohms
- F : nonflammable

COILS  
• MMH : mH, UH :  $\mu$ H



V

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
Q504	=>8-729-178-54	TRANSISTOR 2SC2785		R83	1-246-457-00	CARBON 220 5% 1/4W	
Q505	=>8-729-178-54	TRANSISTOR 2SC2785		R84	1-246-493-00	CARBON 6.8K 5% 1/4W	
Q506	=>8-729-178-54	TRANSISTOR 2SC2785		R85	1-246-493-00	CARBON 6.8K 5% 1/4W	
Q507	=>8-729-178-54	TRANSISTOR 2SC2785		R86	1-246-493-00	CARBON 6.8K 5% 1/4W	
Q508	=>8-729-178-54	TRANSISTOR 2SC2785		R87	1-246-503-00	CARBON 18K 5% 1/4W	
Q509	=>8-729-178-54	TRANSISTOR 2SC2785		R88	1-246-505-00	CARBON 22K 5% 1/4W	
Q510	=>8-729-178-54	TRANSISTOR 2SC2785		R89	1-246-481-00	CARBON 2.2K 5% 1/4W	
Q511	=>8-729-178-54	TRANSISTOR 2SC2785		R90	1-246-515-00	CARBON 56K 5% 1/4W	
Q512	=>8-729-178-54	TRANSISTOR 2SC2785		R91	1-246-491-00	CARBON 5.6K 5% 1/4W	
Q513	=>8-729-178-54	TRANSISTOR 2SC2785		R92	1-246-481-00	CARBON 2.2K 5% 1/4W	
Q514	=>8-729-178-54	TRANSISTOR 2SC2785		R93	1-246-503-00	CARBON 18K 5% 1/4W	
Q515	=>8-729-178-54	TRANSISTOR 2SC2785		R94	1-246-505-00	CARBON 22K 5% 1/4W	
Q516	=>8-719-117-54	TRANSISTOR 2SA1175		R95	1-246-449-00	CARBON 100 5% 1/4W	
Q518	=>8-729-178-54	TRANSISTOR 2SC2785		R96	1-246-441-00	CARBON 47 5% 1/4W	
Q519	=>8-729-178-54	TRANSISTOR 2SC2785		R97	1-246-507-00	CARBON 27K 5% 1/4W	
Q520	=>8-719-117-54	TRANSISTOR 2SA1175		R98	1-246-497-00	CARBON 10K 5% 1/4W	
Q521	=>8-729-178-54	TRANSISTOR 2SC2785		R99	1-246-473-00	CARBON 1K 5% 1/4W	
Q522	=>8-729-178-54	TRANSISTOR 2SC2785		R100	1-214-149-00	METAL 5.1K 1% 1/4W	
Q523	=>8-729-178-54	TRANSISTOR 2SC2785		R101	1-214-149-00	METAL 5.1K 1% 1/4W	
				R102	1-246-489-00	CARBON 4.7K 5% 1/4W	
RESISTOR				R103	1-246-483-00	CARBON 2.7K 5% 1/4W	
R51	1-246-497-00	CARBON 10K 5% 1/4W		R104	1-246-501-00	CARBON 15K 5% 1/4W	
R52	1-246-517-00	CARBON 68K 5% 1/4W		R105	1-246-473-00	CARBON 1K 5% 1/4W	
R53	1-246-473-00	CARBON 1K 5% 1/4W		R106	1-246-501-00	CARBON 15K 5% 1/4W	
R54	1-246-507-00	CARBON 27K 5% 1/4W		R107	1-246-458-00	CARBON 240 5% 1/4W	
R55	1-246-489-00	CARBON 4.7K 5% 1/4W		R108	1-246-425-00	CARBON 10 5% 1/4W	
R56	1-246-449-00	CARBON 100 5% 1/4W		R109	1-246-460-00	CARBON 300 5% 1/4W	
R57	1-246-491-00	CARBON 5.6K 5% 1/4W		R110	1-246-473-00	CARBON 1K 5% 1/4W	
R58	1-246-479-00	CARBON 1.8K 5% 1/4W		R111	1-246-531-00	CARBON 270K 5% 1/4W	
R59	1-246-491-00	CARBON 5.6K 5% 1/4W		R112	1-246-531-00	CARBON 270K 5% 1/4W	
R60	1-246-497-00	CARBON 10K 5% 1/4W		R113	1-246-497-00	CARBON 10K 5% 1/4W	
R61	1-246-517-00	CARBON 68K 5% 1/4W		R114	1-246-489-00	CARBON 4.7K 5% 1/4W	
R62	1-246-473-00	CARBON 1K 5% 1/4W		R115	1-246-462-00	CARBON 360 5% 1/4W	
R63	1-246-507-00	CARBON 27K 5% 1/4W		R116	1-246-473-00	CARBON 1K 5% 1/4W	
R64	1-246-489-00	CARBON 4.7K 5% 1/4W		R117	1-246-467-00	CARBON 560 5% 1/4W	
R65	1-246-449-00	CARBON 100 5% 1/4W		R118	1-246-477-00	CARBON 1.5K 5% 1/4W	
R66	1-246-479-00	CARBON 1.8K 5% 1/4W		R119	1-246-490-00	CARBON 5.1K 5% 1/4W	
R67	1-246-505-00	CARBON 22K 5% 1/4W		R120	1-246-501-00	CARBON 15K 5% 1/4W	
R68	1-246-503-00	CARBON 18K 5% 1/4W		R121	1-246-483-00	CARBON 2.7K 5% 1/4W	
R69	1-246-471-00	CARBON 820 5% 1/4W		R122	1-246-507-00	CARBON 27K 5% 1/4W	
R70	1-246-497-00	CARBON 10K 5% 1/4W		R123	1-246-539-00	CARBON 560K 5% 1/4W	
R71	1-246-517-00	CARBON 68K 5% 1/4W		R124	1-246-516-00	CARBON 62K 5% 1/4W	
R72	1-246-473-00	CARBON 1K 5% 1/4W		R125	1-246-483-00	CARBON 2.7K 5% 1/4W	
R73	1-246-507-00	CARBON 27K 5% 1/4W		R126	1-246-469-00	CARBON 680 5% 1/4W	
R74	1-246-489-00	CARBON 4.7K 5% 1/4W		R127	1-246-497-00	CARBON 10K 5% 1/4W	
R75	1-246-449-00	CARBON 100 5% 1/4W		R128	1-246-512-00	CARBON 43K 5% 1/4W	
R76	1-246-449-00	CARBON 100 5% 1/4W		R129	1-246-485-00	CARBON 3.3K 5% 1/4W	
R77	1-246-481-00	CARBON 2.2K 5% 1/4W		R130	1-246-505-00	CARBON 22K 5% 1/4W	
R78	1-246-449-00	CARBON 100 5% 1/4W		R131	1-214-156-00	METAL 10K 1% 1/4W	
R79	1-246-505-00	CARBON 22K 5% 1/4W		R132	1-214-145-00	METAL 3.6K 1% 1/4W	
R80	1-246-513-00	CARBON 47K 5% 1/4W		R133	1-214-151-00	METAL 6.2K 1% 1/4W	
R81	1-246-530-00	CARBON 240K 5% 1/4W		R134	1-214-155-00	METAL 9.1K 1% 1/4W	
R82	1-246-497-00	CARBON 10K 5% 1/4W		R135	1-246-497-00	CARBON 10K 5% 1/4W	

## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
MF:  $\mu$ F, PF:  $\mu$ PF

RESISTORS  
All resistors are in ohms  
F: nonflammable

COILS  
MMH: mH, UH:  $\mu$ H

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
R136	1-214-173-00	METAL 51K 1% 1/4W		R202	1-246-497-00	CARBON 10K 5% 1/4W	
R137	1-246-497-00	CARBON 10K 5% 1/4W		R203	1-246-497-00	CARBON 10K 5% 1/4W	
R138	1-246-497-00	CARBON 10K 5% 1/4W		R204	1-246-505-00	CARBON 22K 5% 1/4W	
R139	1-246-516-00	CARBON 62K 5% 1/4W		R205	1-246-497-00	CARBON 10K 5% 1/4W	
R140	1-246-493-00	CARBON 6.8K 5% 1/4W		R206	1-246-505-00	CARBON 22K 5% 1/4W	
R143	1-246-497-00	CARBON 10K 5% 1/4W		R207	1-246-497-00	CARBON 10K 5% 1/4W	
R144	1-246-497-00	CARBON 10K 5% 1/4W		R208	1-246-505-00	CARBON 22K 5% 1/4W	
R145	1-246-516-00	CARBON 62K 5% 1/4W		R209	1-246-497-00	CARBON 10K 5% 1/4W	
R146	1-246-521-00	CARBON 100K 5% 1/4W		R210	1-246-497-00	CARBON 10K 5% 1/4W	
R147	1-246-509-00	CARBON 33K 5% 1/4W		R211	1-246-497-00	CARBON 10K 5% 1/4W	
R148	1-246-505-00	CARBON 22K 5% 1/4W		R212	1-246-505-00	CARBON 22K 5% 1/4W	
R149	1-246-505-00	CARBON 22K 5% 1/4W		R213	1-246-497-00	CARBON 10K 5% 1/4W	
R150	1-246-509-00	CARBON 33K 5% 1/4W		R214	1-246-497-00	CARBON 10K 5% 1/4W	
R151	1-246-501-00	CARBON 15K 5% 1/4W		R215	1-246-505-00	CARBON 22K 5% 1/4W	
R154	1-246-497-00	CARBON 10K 5% 1/4W		R216	1-246-497-00	CARBON 10K 5% 1/4W	
R155	1-246-497-00	CARBON 10K 5% 1/4W		R217	1-246-497-00	CARBON 10K 5% 1/4W	
R156	1-246-517-00	CARBON 68K 5% 1/4W		R218	1-246-505-00	CARBON 22K 5% 1/4W	
R157	1-246-497-00	CARBON 10K 5% 1/4W		R219	1-246-497-00	CARBON 10K 5% 1/4W	
R158	1-246-505-00	CARBON 22K 5% 1/4W		R221	1-246-497-00	CARBON 10K 5% 1/4W	
R159	1-246-497-00	CARBON 10K 5% 1/4W		R222	1-246-497-00	CARBON 10K 5% 1/4W	
R160	1-246-505-00	CARBON 22K 5% 1/4W		R223	1-246-497-00	CARBON 10K 5% 1/4W	
R161	1-246-497-00	CARBON 10K 5% 1/4W		R224	1-246-497-00	CARBON 10K 5% 1/4W	
R162	1-246-497-00	CARBON 10K 5% 1/4W		R225	1-246-485-00	CARBON 3.3K 5% 1/4W	
R163	1-246-497-00	CARBON 10K 5% 1/4W		R226	1-246-505-00	CARBON 22K 5% 1/4W	
R164	1-246-505-00	CARBON 22K 5% 1/4W		R230	1-246-529-00	CARBON 220K 5% 1/4W	
R165	1-246-497-00	CARBON 10K 5% 1/4W		R231	1-246-537-00	CARBON 470K 5% 1/4W	
R166	1-214-179-00	METAL 91K 1% 1/4W		R232	1-246-507-00	CARBON 27K 5% 1/4W	
R167	1-246-497-00	CARBON 10K 5% 1/4W		R233	1-246-497-00	CARBON 10K 5% 1/4W	
R168	1-246-505-00	CARBON 22K 5% 1/4W		R234	1-246-497-00	CARBON 10K 5% 1/4W	
R169	1-246-497-00	CARBON 10K 5% 1/4W		R501	1-246-491-00	CARBON 5.6K 5% 1/4W	
R170	1-246-515-00	CARBON 56K 5% 1/4W		R502	1-246-501-00	CARBON 15K 5% 1/4W	
R171	1-246-511-00	CARBON 39K 5% 1/4W		R503	1-246-505-00	CARBON 22K 5% 1/4W	
R172	1-246-505-00	CARBON 22K 5% 1/4W		R504	1-246-491-00	CARBON 5.6K 5% 1/4W	
R173	1-246-497-00	CARBON 10K 5% 1/4W		R505	1-246-491-00	CARBON 5.6K 5% 1/4W	
R174	1-246-505-00	CARBON 22K 5% 1/4W		R506	1-246-505-00	CARBON 22K 5% 1/4W	
R175	1-246-485-00	CARBON 3.3K 5% 1/4W		R507	1-246-507-00	CARBON 27K 5% 1/4W	
R178	1-246-485-00	CARBON 3.3K 5% 1/4W		R508	1-246-513-00	CARBONITION 47K 5% 1/4W	
R179	1-246-505-00	CARBON 22K 5% 1/4W		R509	1-202-463-00	COMPOSITION 2.2M 5% 1/4W	
R182	1-246-531-00	CARBON 270K 5% 1/4W		R510	1-246-521-00	CARBONITION 100K 5% 1/4W	
R183	1-246-497-00	CARBON 10K 5% 1/4W		R511	1-202-463-00	COMPOSITION 2.2M 5% 1/4W	
R184	1-246-505-00	CARBON 22K 5% 1/4W		R512	1-246-521-00	CARBON 100K 5% 1/4W	
R185	1-246-497-00	CARBON 10K 5% 1/4W		R513	1-246-457-00	CARBON 220 5% 1/4W	
R187	1-246-505-00	CARBON 22K 5% 1/4W		R514	1-246-497-00	CARBON 10K 5% 1/4W	
R189	1-246-534-00	CARBON 360K 5% 1/4W		R515	1-246-537-00	CARBON 470K 5% 1/4W	
R190	1-246-505-00	CARBON 22K 5% 1/4W		R516	1-246-497-00	CARBON 10K 5% 1/4W	
R192	1-246-505-00	CARBON 22K 5% 1/4W		R517	1-246-513-00	CARBON 47K 5% 1/4W	
R195	1-246-505-00	CARBON 22K 5% 1/4W		R518	1-246-533-00	CARBON 330K 5% 1/4W	
R196	1-246-505-00	CARBON 22K 5% 1/4W		R519	1-246-511-00	CARBON 39K 5% 1/4W	
R197	1-246-497-00	CARBON 10K 5% 1/4W		R520	1-246-482-00	CARBON 2.4K 5% 1/4W	
R198	1-246-521-00	CARBON 100K 5% 1/4W		R521	1-246-505-00	CARBON 22K 5% 1/4W	
R199	1-246-505-00	CARBON 22K 5% 1/4W		R522	1-246-513-00	CARBON 47K 5% 1/4W	
R200	1-246-497-00	CARBON 10K 5% 1/4W		R523	1-246-521-00	CARBON 100K 5% 1/4W	
R201	1-246-505-00	CARBON 22K 5% 1/4W		R524	1-246-449-00	CARBON 100 5% 1/4W	

## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
MF:  $\mu$ F, PF:  $\mu$ PF

RESISTORS  
All resistors are in ohms  
F: nonflammable

COILS  
MMH: mH, UH:  $\mu$ H



V

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
R525	1-246-497-00	CARBON 10K 5% 1/4W		R579	1-246-518-00	CARBON 75K 5% 1/4W	
R526	1-246-537-00	CARBON 470K 5% 1/4W		R580	1-246-473-00	CARBON 1K 5% 1/4W	
R527	1-246-495-00	CARBON 8.2K 5% 1/4W		R581	1-246-457-00	CARBON 220 5% 1/4W	
R528	1-246-479-00	CARBON 1.8K 5% 1/4W		R582	1-246-457-00	CARBON 220 5% 1/4W	
R529	1-246-492-00	CARBON 6.2K 5% 1/4W		R583	1-246-490-00	CARBON 5.1K 5% 1/4W	
R530	1-246-501-00	CARBON 15K 5% 1/4W		R584	1-246-505-00	CARBON 22K 5% 1/4W	
R531	1-246-490-00	CARBON 5.1K 5% 1/4W		R585	1-246-497-00	CARBON 10K 5% 1/4W	
R532	1-246-458-00	CARBON 240 5% 1/4W		R586	1-246-512-00	CARBON 43K 5% 1/4W	
R533	1-246-509-00	CARBON 33K 5% 1/4W		R587	1-246-505-00	CARBON 22K 5% 1/4W	
R534	1-246-489-00	CARBON 4.7K 5% 1/4W		R588	1-246-501-00	CARBON 15K 5% 1/4W	
R535	1-246-497-00	CARBON 10K 5% 1/4W		R589	1-246-513-00	CARBON 47K 5% 1/4W	
R536	1-246-521-00	CARBON 100K 5% 1/4W		R590	1-246-525-00	CARBON 150K 5% 1/4W	
R537	1-246-513-00	CARBON 47K 5% 1/4W		R591	1-246-505-00	CARBON 22K 5% 1/4W	
R538	1-246-509-00	CARBON 33K 5% 1/4W		R592	1-246-497-00	CARBON 10K 5% 1/4W	
R539	1-246-473-00	CARBON 1K 5% 1/4W		R593	1-246-493-00	CARBON 6.8K 5% 1/4W	
R540	1-246-489-00	CARBON 4.7K 5% 1/4W		R594	1-246-489-00	CARBON 4.7K 5% 1/4W	
R541	1-246-475-00	CARBON 1.2K 5% 1/4W		R595	1-246-521-00	CARBON 100K 5% 1/4W	
R542	1-246-495-00	CARBON 8.2K 5% 1/4W		R596	1-246-497-00	CARBON 10K 5% 1/4W	
R543	1-246-513-00	CARBON 47K 5% 1/4W		R597	1-246-487-00	CARBON 3.9K 5% 1/4W	
R544	1-246-513-00	CARBON 47K 5% 1/4W		R598	1-246-489-00	CARBON 4.7K 5% 1/4W	
R545	1-246-505-00	CARBON 22K 5% 1/4W		VARIABLE RESISTOR			
R546	1-246-513-00	CARBON 47K 5% 1/4W		RV51	1-224-647-XX	RES, ADJ, CARBON 47K	
R547	1-246-513-00	CARBON 47K 5% 1/4W		RV501	1-224-646-XX	RES, ADJ, CARBON 22K	
R548	1-202-463-00	COMPOSITION 2.2M 5% 1/4W		RV502	1-224-646-XX	RES, ADJ, CARBON 22K	
R549	1-246-513-00	CARBON 47K 5% 1/4W		RV503	1-226-819-00	RES, ADJ, CARBON 1K	
R550	1-246-513-00	CARBON 47K 5% 1/4W		RV504	1-224-641-XX	RES, ADJ, CARBON 470	
R551	1-246-525-00	CARBON 150K 5% 1/4W		RV505	1-224-640-XX	RES, ADJ, CARBON 330	
R552	1-246-521-00	CARBON 100K 5% 1/4W		RV506	1-224-646-XX	RES, ADJ, CARBON 22K	
R554	1-246-489-00	CARBON 4.7K 5% 1/4W		RV507	1-224-645-XX	RES, ADJ, CARBON 10K	
R555	1-246-477-00	CARBON 1.5K 5% 1/4W		RV508	1-224-644-XX	RES, ADJ, CARBON 3.3K	
R556	1-246-485-00	CARBON 3.3K 5% 1/4W		RV509	1-226-819-00	RES, ADJ, CARBON 1K	
R557	1-246-513-00	CARBON 47K 5% 1/4W		RV510	1-224-644-XX	RES, ADJ, CARBON 3.3K	
R558	1-246-513-00	CARBON 47K 5% 1/4W		RV511	1-224-646-XX	RES, ADJ, CARBON 22K	
R559	1-246-513-00	CARBON 47K 5% 1/4W		RV512	1-224-646-XX	RES, ADJ, CARBON 22K	
R560	1-246-491-00	CARBON 5.6K 5% 1/4W		RV513	1-224-646-XX	RES, ADJ, CARBON 22K	
R561	1-246-485-00	CARBON 3.3K 5% 1/4W		RV514	1-224-647-XX	RES, ADJ, CARBON 47K	
R562	1-246-477-00	CARBON 1.5K 5% 1/4W		RV515	1-224-644-XX	RES, ADJ, CARBON 4.7K	
R563	1-246-506-00	CARBON 24K 5% 1/4W		RV516	1-224-646-XX	RES, ADJ, CARBON 22K	
R564	1-246-493-00	CARBON 6.8K 5% 1/4W		RV517	1-224-640-XX	RES, ADJ, CARBON 330	
R565	1-246-496-00	CARBON 9.1K 5% 1/4W		RV518	1-224-645-XX	RES, ADJ, CARBON 10K	
R566	1-246-499-00	CARBON 12K 5% 1/4W		THERMISTOR			
R567	1-246-479-00	CARBON 1.8K 5% 1/4W		TH501	1-800-070-XX	THERMISTOR TH-4700	
R568	1-246-486-00	CARBON 3.6K 5% 1/4W		TH502	1-800-070-XX	THERMISTOR TH-4700	
R569	1-246-439-00	CARBON 39 5% 1/4W		POST PIN			
R570	1-246-473-00	CARBON 1K 5% 1/4W		TP31	1-536-354-00	POST PIN	
R571	1-246-490-00	CARBON 5.1K 5% 1/4W		TP32	1-536-354-00	POST PIN	
R572	1-246-529-00	CARBON 220K 5% 1/4W		TP33	1-536-354-00	POST PIN	
R573	1-246-521-00	CARBON 100K 5% 1/4W		TP34	1-536-354-00	POST PIN	
R574	1-246-481-00	CARBON 2.2K 5% 1/4W		TP35	1-536-354-00	POST PIN	
R575	1-246-481-00	CARBON 2.2K 5% 1/4W		TP36	1-536-354-00	POST PIN	
R576	1-246-521-00	CARBON 100K 5% 1/4W					
R577	1-246-497-00	CARBON 10K 5% 1/4W					
R578	1-246-523-00	CARBON 120K 5% 1/4W					

## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
MF:  $\mu$ F, PF:  $\mu$ PF

RESISTORS  
All resistors are in ohms  
F: nonflammable

COILS  
MMH: mH, UH:  $\mu$ H

V HA HB F

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
TP86	1-536-354-00	POST PIN		RESISTOR			
TP87	1-536-354-00	POST PIN		R31	1-246-509-00	CARBON 33K 5% 1/4W	
CONNECTOR				R33	1-246-509-00	CARBON 33K 5% 1/4W	
V1	$\Delta$ :1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P		R35	1-246-509-00	CARBON 33K 5% 1/4W	
V2	$\Delta$ :1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P		R37	1-246-509-00	CARBON 33K 5% 1/4W	
V3	$\Delta$ :1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P		R39	1-246-509-00	CARBON 33K 5% 1/4W	
V4	$\Delta$ :1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		R41	1-246-509-00	CARBON 33K 5% 1/4W	
V5	$\Delta$ :1-508-742-00	PIN, CONNECTOR 3P		R43	1-246-509-00	CARBON 33K 5% 1/4W	
V6	$\Delta$ :1-560-224-00	PLUG, CONNECTOR (2.5MM) 10P		R44	1-246-509-00	CARBON 33K 5% 1/4W	
V7	$\Delta$ :1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		R45	1-246-477-00	CARBON 1.5K 5% 1/4W	
V8	$\Delta$ :1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P		R46	1-246-509-00	CARBON 33K 5% 1/4W	
V9	$\Delta$ :1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		R47	1-246-509-00	CARBON 33K 5% 1/4W	
V10	$\Delta$ :1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P		R48	1-246-509-00	CARBON 33K 5% 1/4W	
V11	$\Delta$ :1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		R50	1-246-497-00	CARBON 10K 5% 1/4W	
V12	$\Delta$ :1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P		R51	1-246-497-00	CARBON 10K 5% 1/4W	
V13	$\Delta$ :1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		R52	1-246-497-00	CARBON 10K 5% 1/4W	
V14	$\Delta$ :1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		SWITCH			
*****				S31	1-552-267-00	SWITCH, LEVER SLIDE	
$\Delta$ :1-604-879-00 HA BOARD *****				S32	1-553-582-00	SWITCH, LEVER SLIDE	
CAPACITOR				S33	1-552-267-00	SWITCH, LEVER SLIDE	
C31	1-102-125-00	CERAMIC 0.0047MF 10% 50V		*****			
COMPOSITION CIRCUIT BLOCK				DIODE			
CP31	1-231-810-00	COMPOSITION CIRCUIT BLOCK		$\Delta$ :1-604-880-00 HB BOARD *****			
CP32	1-231-810-00	COMPOSITION CIRCUIT BLOCK		D37	=>8-719-911-19	DIODE 1SS119	
DIODE				CONNECTOR			
D31	=>8-719-911-19	DIODE 1SS119		HB1	$\Delta$ :1-508-734-00	PIN, CONNECTOR 3P	
D32	=>8-719-911-19	DIODE 1SS119		TRANSISTOR			
D33	=>8-719-911-19	DIODE 1SS119		Q32	=>8-729-178-54	TRANSISTOR 2SC2785	
D34	=>8-719-911-19	DIODE 1SS119		RESISTOR			
D35	=>8-719-911-19	DIODE 1SS119		R49	1-246-509-00	CARBON 33K 5% 1/4W	
D36	=>8-719-911-19	DIODE 1SS119		R53	1-246-497-00	CARBON 10K 5% 1/4W	
D38	=>8-719-911-19	DIODE 1SS119		SWITCH			
CONNECTOR				S34	1-552-897-00	SWITCH, LEVER	
HA1	$\Delta$ :1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P		S35	1-552-897-00	SWITCH, LEVER	
HA2	$\Delta$ :1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		*****			
HA3	$\Delta$ :1-560-224-00	PLUG, CONNECTOR (2.5MM) 10P		$\Delta$ :1-604-889-00 HC BOARD *****			
HA5	$\Delta$ :1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		DIODE			
HA6	$\Delta$ :1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		D11	=>8-719-911-19	DIODE 1SS119	
IC				D12	=>8-719-911-19	DIODE 1SS119	
IC31	8-759-240-01	IC TC4001BP		D13	=>8-719-911-19	DIODE 1SS119	
TRANSISTOR							
Q31	=>8-729-178-54	TRANSISTOR 2SC2785					

## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
MF:  $\mu$ F, PF:  $\mu$ PF

RESISTORS  
All resistors are in ohms  
F: nonflammable

COILS  
MMH: mH, UH:  $\mu$ H



Hc X Z

Ref.No	Part No	Description	Remark
RESISTOR			
R11	1-246-473-00	CARBON 1K 5% 1/4W	
R12	1-246-473-00	CARBON 1K 5% 1/4W	
R13	1-246-473-00	CARBON 1K 5% 1/4W	
R14	1-246-497-00	CARBON 10K 5% 1/4W	
R15	1-246-473-00	CARBON 1K 5% 1/4W	
VARIABLE RESISTOR			
RV11	1-224-917-00	RES, ADJ, METAL FILM 1K	
RV12	1-224-919-00	RES, ADJ, METAL FILM 5K	
RV13	1-224-917-00	RES, ADJ, METAL FILM 1K	
RV14	1-224-919-00	RES, ADJ, METAL FILM 5K	
RV15	1-224-917-00	RES, ADJ, METAL FILM 1K	
RV16	1-224-919-00	RES, ADJ, METAL FILM 5K	
RV17	1-224-919-00	RES, ADJ, METAL FILM 5K	
RV18	1-224-919-00	RES, ADJ, METAL FILM 5K	
SWITCH			
S11	1-552-898-00	SWITCH, TOGGLE	
S12	1-552-898-00	SWITCH, TOGGLE	
S13	1-552-898-00	SWITCH, TOGGLE	
S14	1-552-898-00	SWITCH, TOGGLE	
*****			
	1-604-885-00	X BOARD	
		*****	
	1-555-956-11	CONNECTOR ASSY (2.5MM) 2P	
DIODE			
D901	8-719-909-20	DIODE GL9NG2	
*****			
	1-604-884-00	Z BOARD	
		*****	
CONNECTOR			
FA7	1-551-921-00	CONNECTOR ASSY 3P	
NEON LAMP			
NL901	1-519-108-XX	LAMP, NEON ASSY	
NL902	1-519-108-XX	LAMP, NEON ASSY	
*****			
MISCELLANEOUS			
	1-452-032-00	MAGNET, DISC	
	1-452-112-42	NECK ASSY, CRT	
	1-452-146-00	MAGNET, BMC	
	1-453-081-00	HIGH-VOLTAGE BLOCK, DC	
	1-508-723-00	4P PLUG, DIN	
	1-509-774-43	CONNECTOR ASSY, 3P	

## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
• MF :  $\mu$ F, PF :  $\mu$ PF

RESISTORS  
• All resistors are in ohms  
• F : nonflammable

COILS  
• MMH : mH, UH :  $\mu$ H

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "  $\Delta$  " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Ref.No	Part No	Description	Remark
	1-509-804-00	3P CONNECTOR ASSY	
	1-509-823-72	CONNECTOR ASSY, 5P	
	1-534-820-XX	POWER CORD	
	1-551-715-00	CONNECTOR 3P	
	1-555-037-00	CONNECTOR ASSY, MINIATURE 3P	
	1-555-225-00	CONNECTOR ASSY (LARGE) 1P	
	1-555-433-00	CONNECTOR ASSY 6P	
	1-555-441-00	CONNECTOR ASSY (LARGE) 3P	
	1-555-657-00	CONNECTOR ASSY 1P	
	1-555-705-00	CONNECTOR ASSY (2.5MM) 10P	
	1-555-730-00	CONNECTOR ASSY (2.5MM) 2P	
	1-555-752-00	CONNECTOR ASSY (L) 2P	
	1-555-755-00	CONNECTOR ASSY (2.5MM) 3P	
	1-555-756-00	CONNECTOR ASSY (2.5MM) 3P	
	1-555-817-00	CONNECTOR ASSY (2.5MM) 4P	
	1-555-837-61	CONNECTOR ASSY (2.5MM) 6P	
	1-555-837-71	CONNECTOR ASSY (2.5MM) 6P	
	1-555-837-81	CONNECTOR ASSY (2.5MM) 6P	
	1-555-837-91	CONNECTOR ASSY (2.5MM) 6P	
	1-555-946-00	CONNECTOR ASSY, MINIATURE 5P	
	1-555-947-00	CONNECTOR ASSY, MINIATURE 5P	
	1-555-948-00	CONNECTOR ASSY, MINIATURE 5P	
	1-555-955-00	CONNECTOR ASSY (2.5MM) 9P	
	1-555-957-11	CONNECTOR ASSY (2.5MM) 2P	
	1-555-960-11	CONNECTOR ASSY (2.5MM) 2P	
	1-555-961-11	CONNECTOR ASSY (2.5MM) 2P	
	1-555-964-00	CONNECTOR ASSY (2.5MM) 5P	
	1-555-965-00	CONNECTOR ASSY (2.5MM) 5P	
	1-555-966-00	CONNECTOR ASSY (2.5MM) 5P	
	1-555-973-11	CONNECTOR ASSY (LARGE) 4P	
	1-561-046-00	CONNECTOR, 3P	
C911	1-130-031-00	CAP, POLYPROPYLENE 0.22MF 400V	
CN901	1-509-718-00	DIN 4P SOCKET	
CN902	1-509-718-00	DIN 4P SOCKET	
J901	1-561-167-00	CONNECTOR	
J902	1-561-167-00	CONNECTOR	
J903	1-561-167-00	CONNECTOR	
J904	1-561-167-00	CONNECTOR	
J905	1-561-167-00	CONNECTOR	
J906	1-561-167-00	CONNECTOR	
J907	1-561-167-00	CONNECTOR	
L901	1-425-922-41	COIL, DEGAUSS	
L902	1-425-922-41	COIL, DEGAUSS	
L903	1-451-160-00	DEFLECTION YOKE (SY-97)	
L904	1-451-160-00	DEFLECTION YOKE (SY-97)	
Q901	8-729-311-42	TRANSISTOR 2SC1114	
R901	1-205-608-00	RES, CEMENT 180	
R902	1-246-446-00	RES, CARBON 75	

Ref.No	Part No	Description	Remark
R903	1-246-446-00	RES, CARBON 75	
R904	1-246-446-00	RES, CARBON 75	
R905	1-246-446-00	RES, CARBON 75	
R911	1-202-830-00	RES, SOLID 10K 1W	
R912	1-202-830-00	RES, SOLID 10K 1W	
RV901	1-226-687-00	RES, VAR 500	
RV902	1-224-619-00	RES, VAR, CARBON 5K	
RV903	1-224-259-XX	RES, VAR, CARBON 5.0K	
S901	1-553-330-00	SWITCH, PUSH (POWER)	
S902	1-516-777-XX	SLIDE SWITCH	
S903	1-516-777-XX	SLIDE SWITCH	
S904	1-516-777-XX	SLIDE SWITCH	
T911	1-439-208-00	TRANSFORMER, FLYBACK	
T901	1-447-065-00	TRANSFORMER, POWER	
V901	8-738-301-05	TUNING (FINE PLTCH) 330B22	

## ACCESSORIES AND PACKING MATERIALS

Part No	Description	Remark
1-508-723-00	4P PLUG, DIN	
3-701-360-00	LABEL, TACK	
3-701-631-00	BAG, POLYETHYLENE	
4-309-537-00	BAG, POLYETHYLENE	
4-353-603-00	PLATE, NUMBER	
4-353-646-00	INDIVIDUAL CARTON	
4-353-647-00	CUSHION (UPPER)	
4-353-648-00	CUSHION (LOWER)	
4-493-587-11	MANUAL, INSTRUCTION	

## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

CAPACITORS  
• MF :  $\mu$ F, PF :  $\mu$ PF

RESISTORS  
• All resistors are in ohms  
• F : nonflammable

COILS  
• MMH : mH, UH :  $\mu$ H

• Items marked "  $\Delta$  " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.



## ELECTROLYTIC CAPACITORS

CAP. (μF)	RATING → Use the high voltage rated one.						
	6.3 VOLT. PART No.	10 VOLT. PART No.	16 VOLT. PART No.	25 VOLT. PART No.	35 VOLT. PART No.	50 VOLT. PART No.	63 VOLT. PART No.
0.47							
1.0							
2.2							
3.3							
4.7							
10							
22							
33							
47							
100							
220							
330							
470							
1000							
2200							
3300							
4700							
6800							
10000							

CAP. (μF)	100 VOLT. PART No.	160 VOLT. PART No.	250 VOLT. PART No.	350 VOLT. PART No.
	PART No.	PART No.	PART No.	PART No.
0.47	1-123-379-00			
1.0	1-123-380-00	1-123-252-00	1-123-003-00	1-121-168-00
2.2	1-123-381-00	1-123-026-00	1-123-027-00	1-123-028-00
3.3	1-123-382-00	1-121-707-00	1-123-004-00	1-123-006-00
4.7	1-123-383-00	1-121-246-00	1-121-759-00	1-123-007-00
10	1-123-384-00	1-121-999-00	1-123-254-00	1-123-008-00
22	1-123-385-00	1-123-253-00	1-123-005-00	1-123-022-00
33	1-123-386-00	1-121-757-00		
47	1-123-387-00	1-121-919-00		
100	1-123-388-00			
220	1-123-389-00			
330	1-123-390-00			
470	1-123-391-00			

## CERAMIC CAPACITORS

CAP. (pF)	RATING						
	50 VOLT. PART No.	50 VOLT. PART No.	50 VOLT. PART No.	50 VOLT. PART No.	50 VOLT. PART No.	50 VOLT. PART No.	50 VOLT. PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-00
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-00
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-00
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-00
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-00
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-00
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-00
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-00
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-00
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-00
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-00
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-00
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-00
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-00
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-00
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00		
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00		
16	1-102-952-00	110	1-102-815-00				
18	1-102-953-00	120	1-102-816-00				
20	1-102-958-00	130	1-101-081-00				

## MYLAR CAPACITORS

CAP. (μF)	RATING										
	50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.	50 VOLT. CAP. (μF)	50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.	50 VOLT. CAP. (μF)	50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00		
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00		
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00		
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00		
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00				
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00				
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00				

## 1/4 WATT CARBON RESISTORS

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00		
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00		
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00		
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-476-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00		
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-477-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00		
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-478-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00		
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-479-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00		
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-480-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00		
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-481-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00		
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-482-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00		
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-483-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00		
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-484-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00		
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-485-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00		
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-486-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00		
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-487-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00		
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00		
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00		
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00		
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00				
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00				
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00				
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00				
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00				
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00				

## HARDWARE NOMENCLATURE

Screw:

P 3 x 10

L: Length in mm

D: Diameter in mm

Type of head

Indicated slotted-head only.

Unless otherwise indicated, it means cross-recessed head (Phillips type).













1-1

Nut, Washer, Retaining ring:

N 3

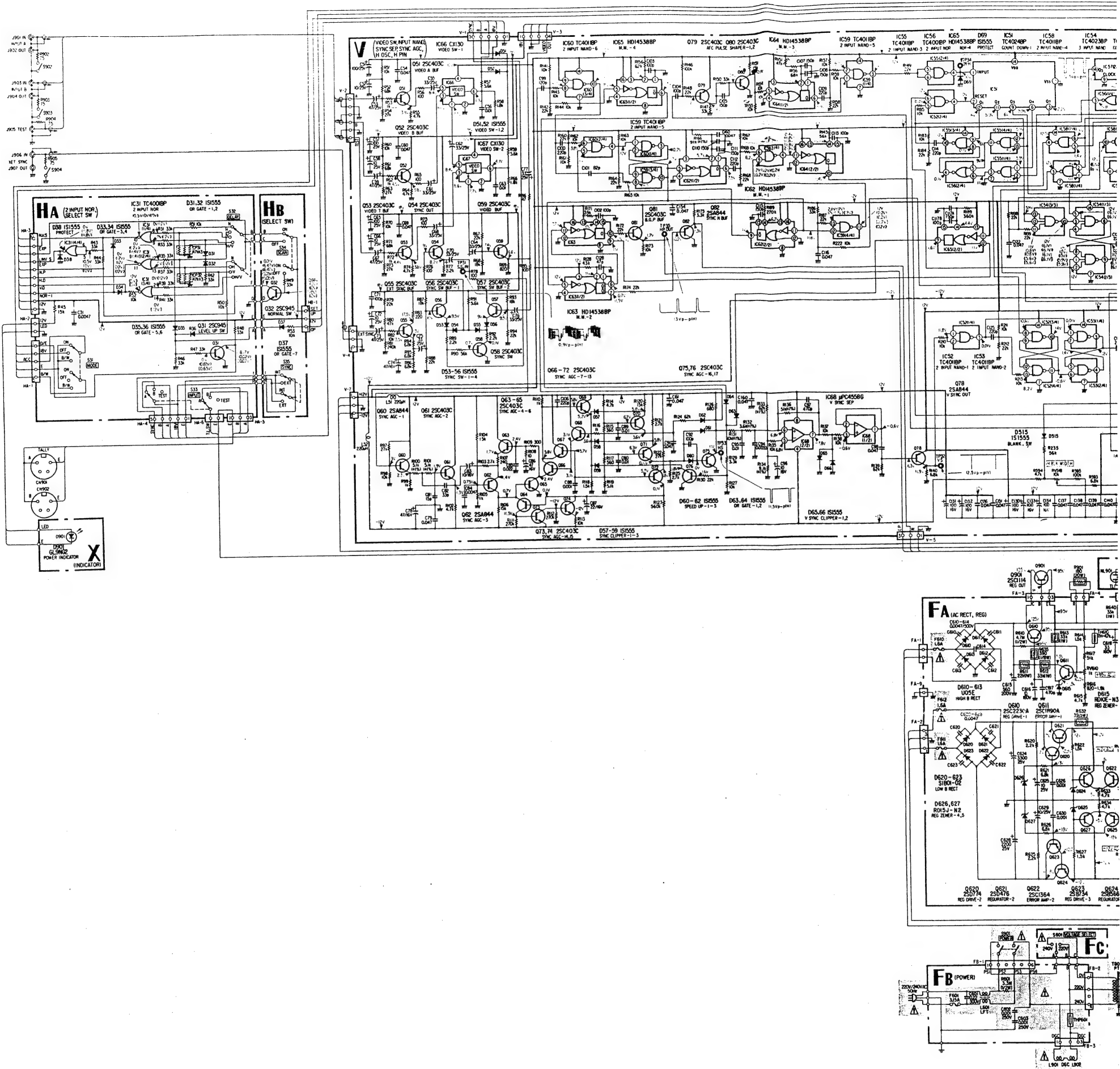
Diameter of usable screw or shaft

Reference designation

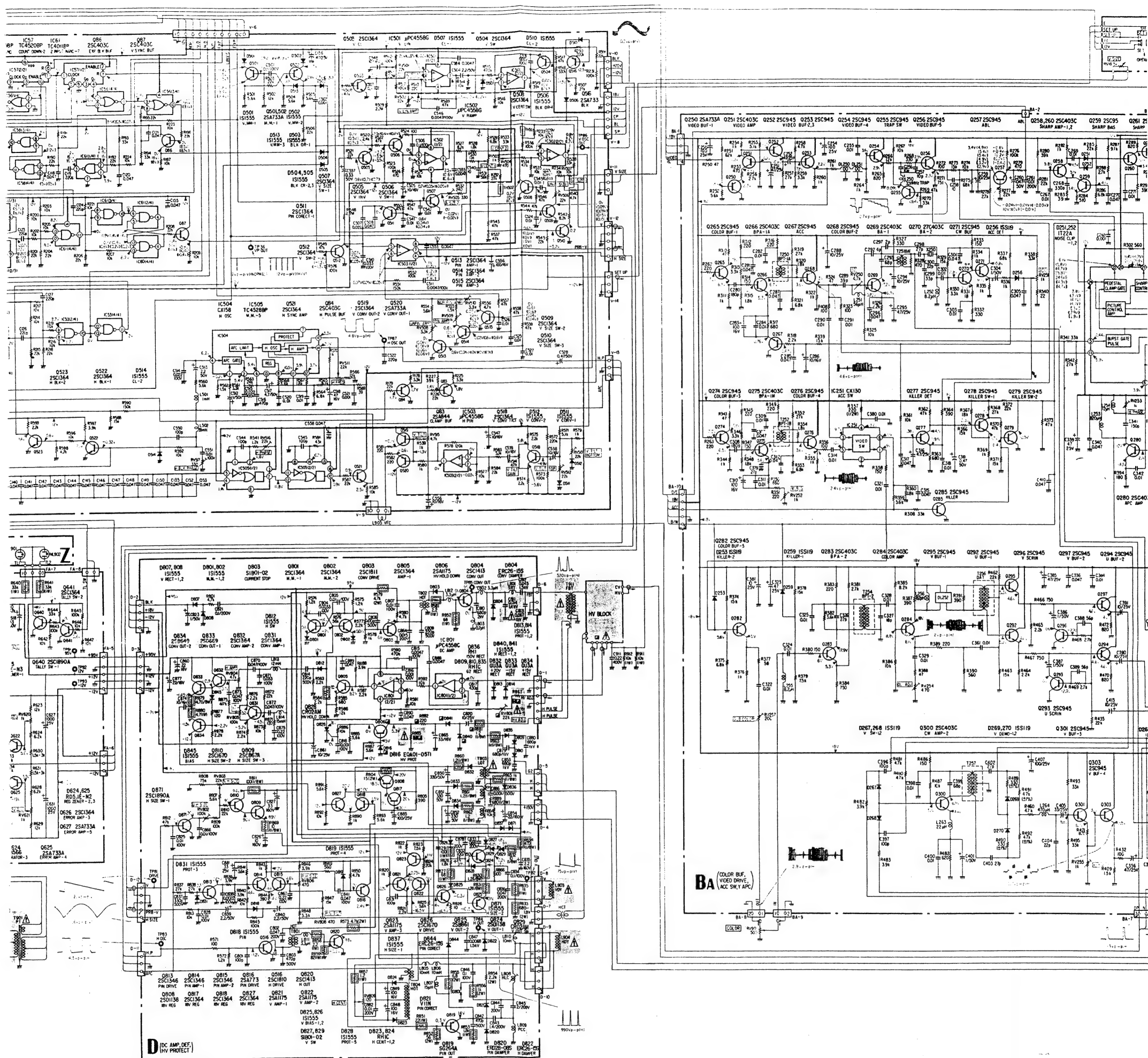
Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		brazer-head screw	



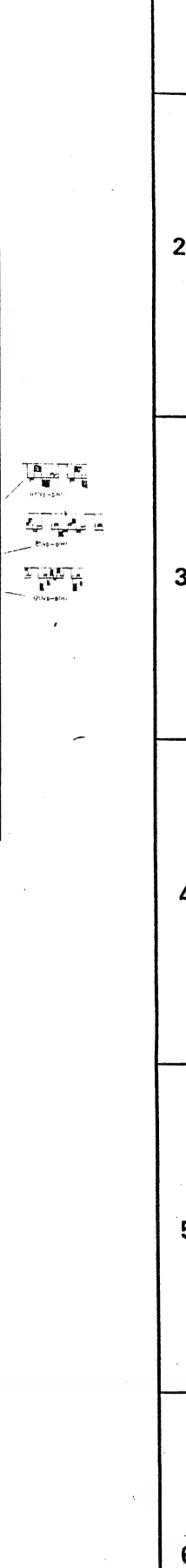
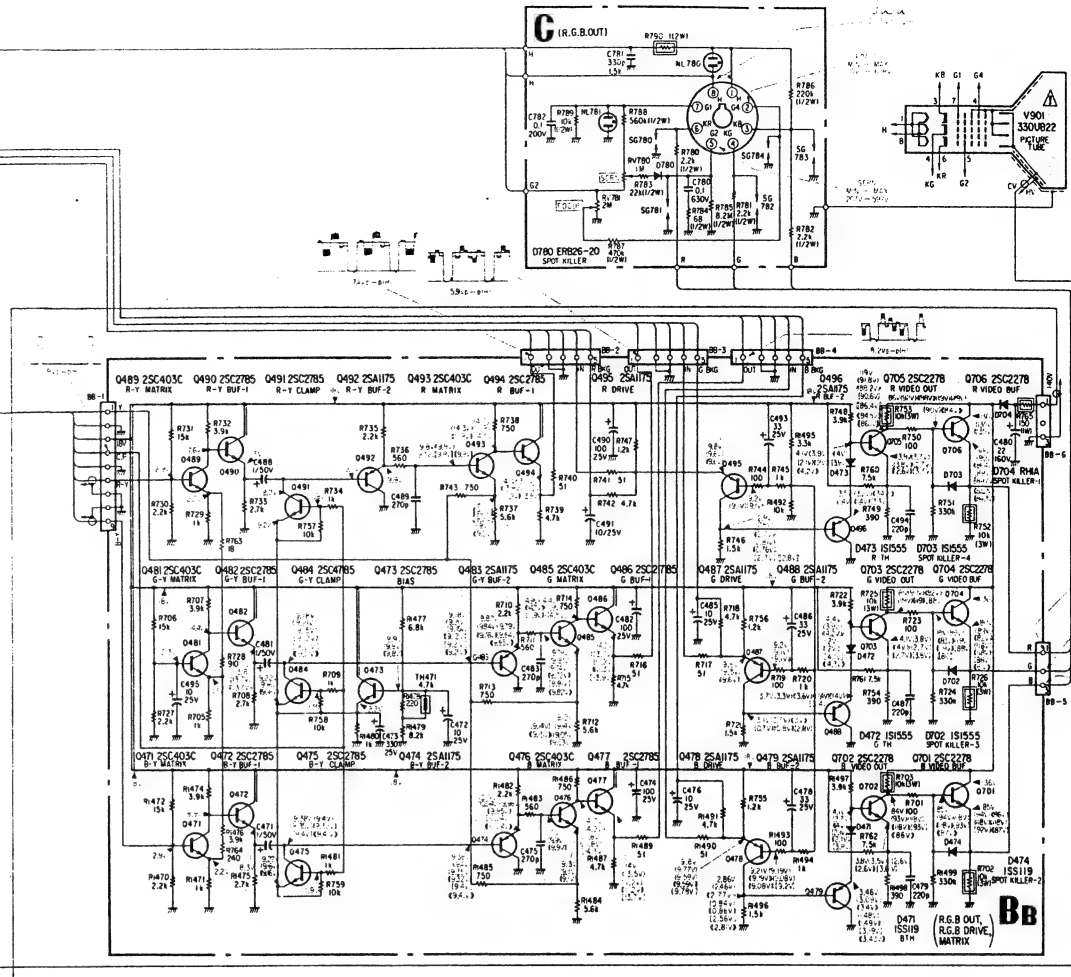
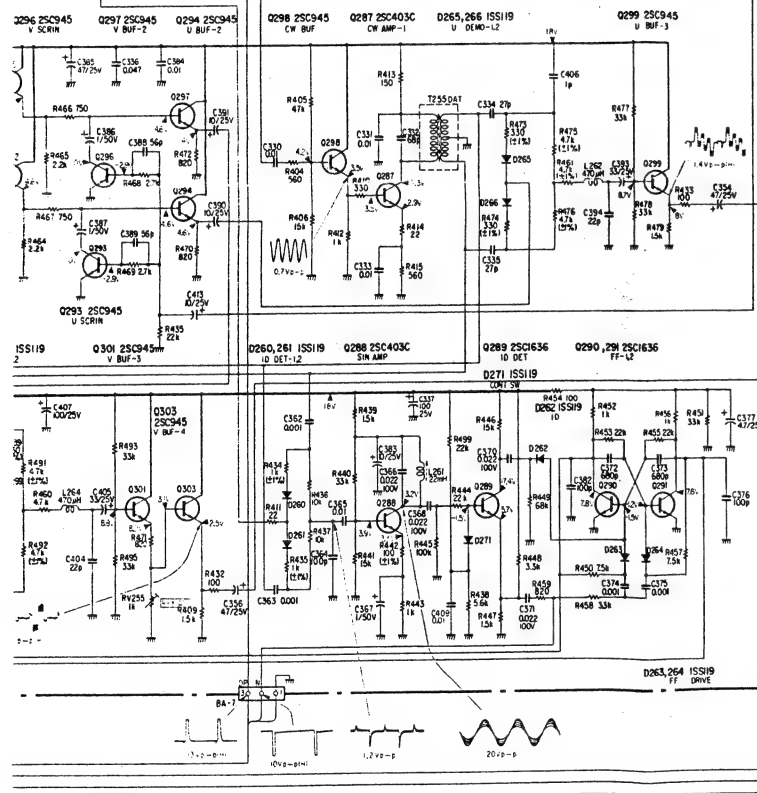
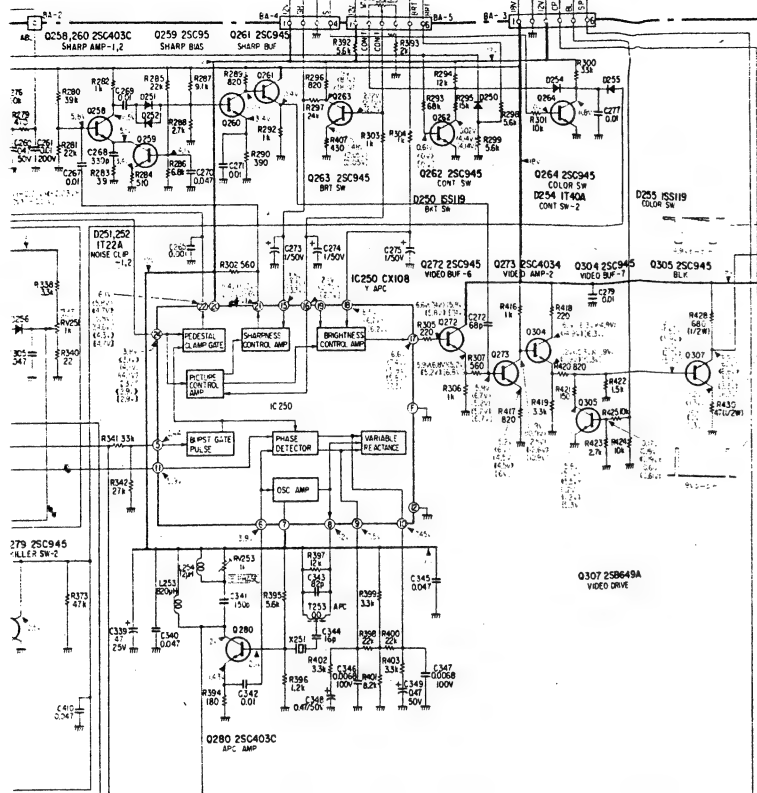
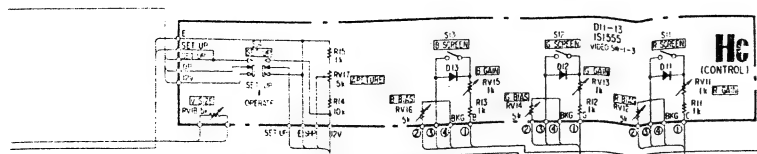
# SCHEMATIC DIAGRAM









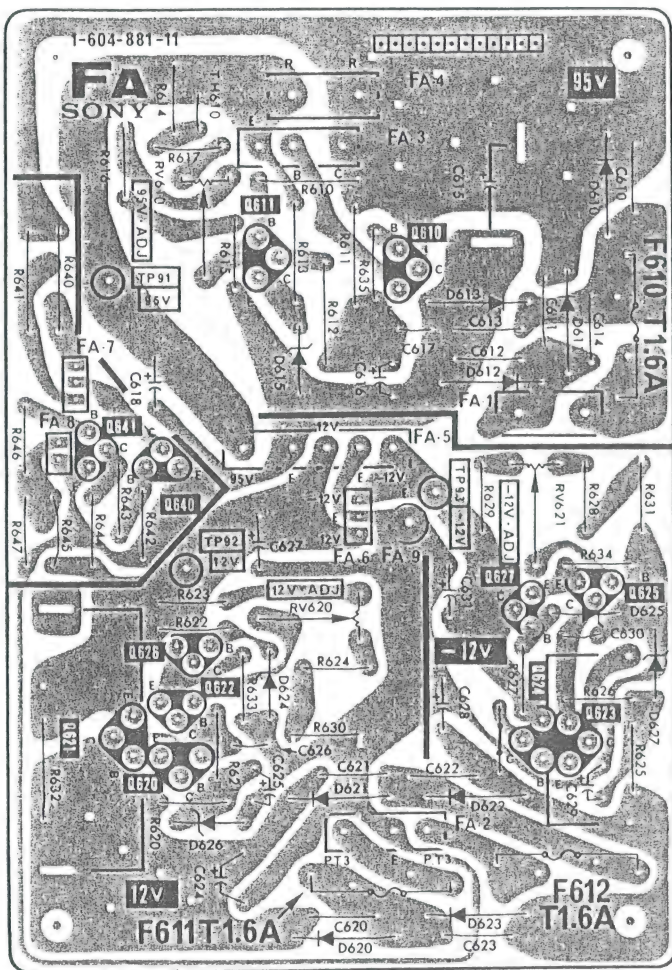




# MOUNTING DIAGRAM

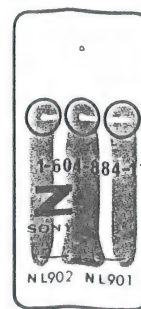
FA

(AC RECT, REG)



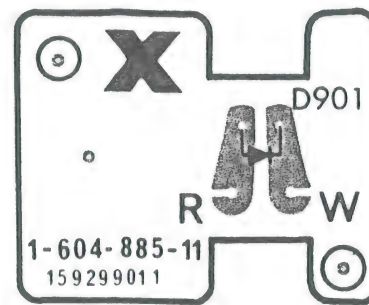
Q, IC	D	ADJ
610		RV610
611	610	
613	611	
615	612	
641	640	RV621
625		RV620
627	625	
626	627	
622	624	
621	624 623	
620	621 622 626	
623		
620		
Q, IC	D	ADJ

Z



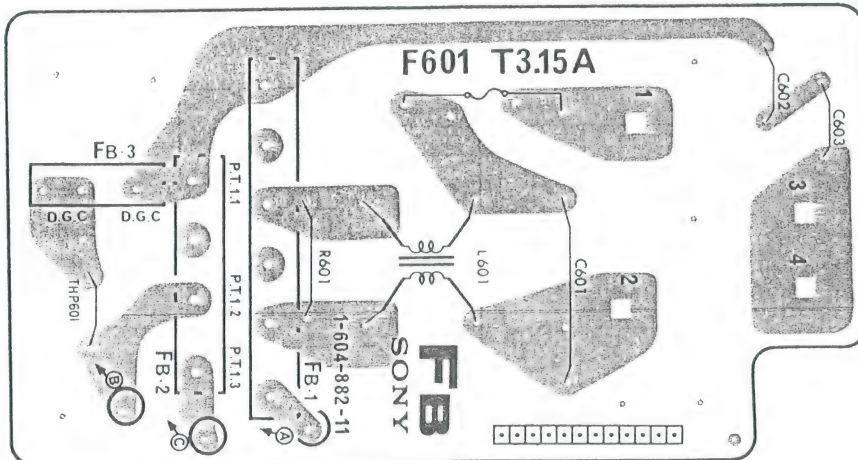
X

(INDICATOR)

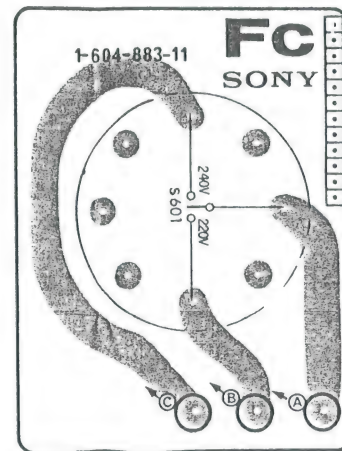


FB

(POWER)

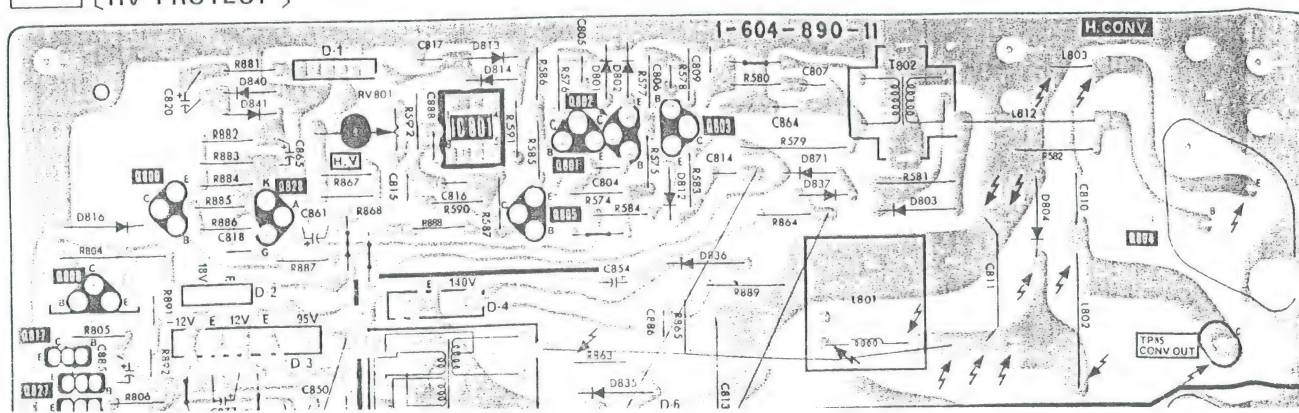


Fc



D

(DC AMP, DEF. HV PROTECT)

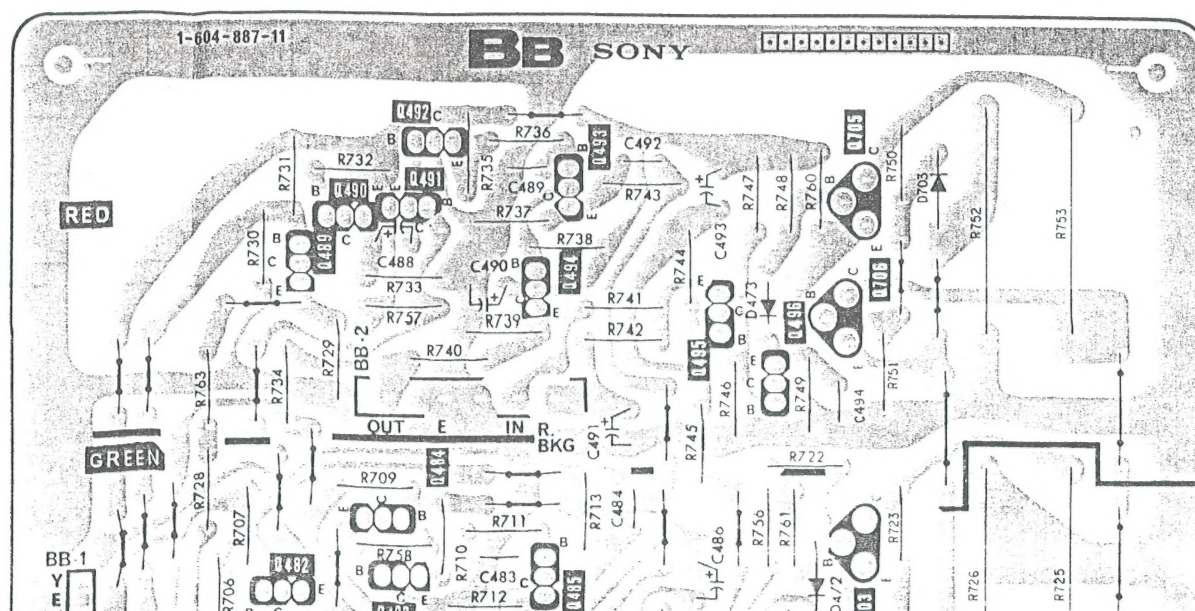
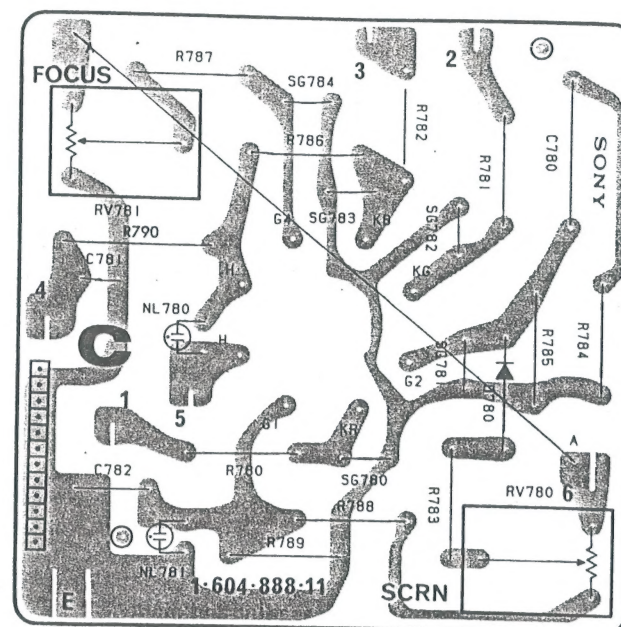
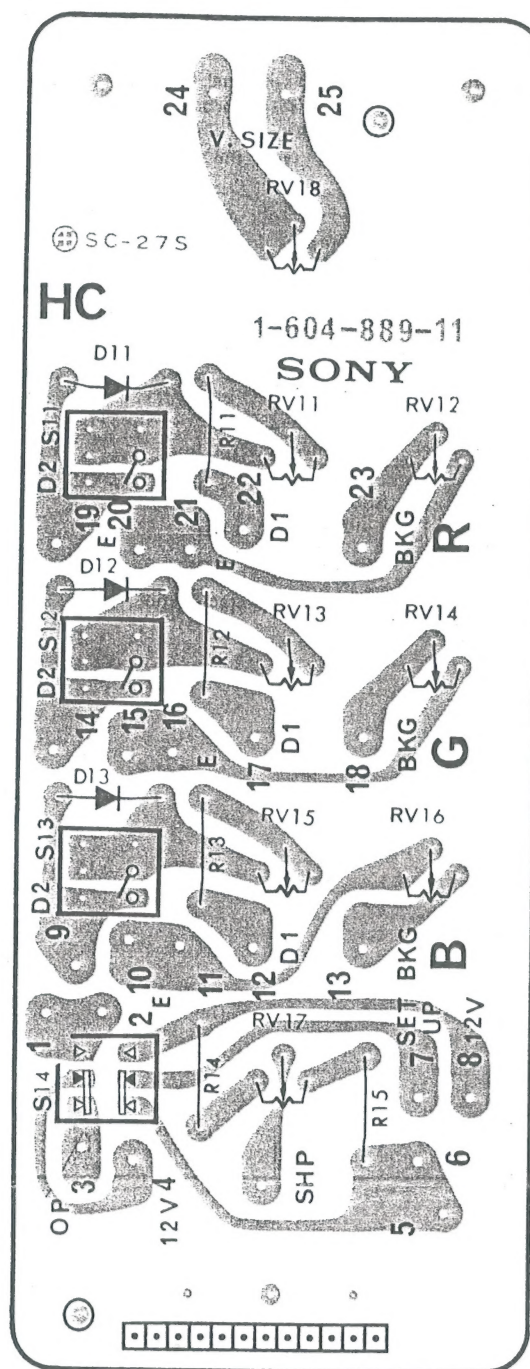


Q, IC	D	ADJ
813		
814	801 802	
840		
841		RV801
IC801		
801 802 803		
806	871	
828	812 837	
805	816 803	
804	804	
808	836	
817		
827		
818	835	





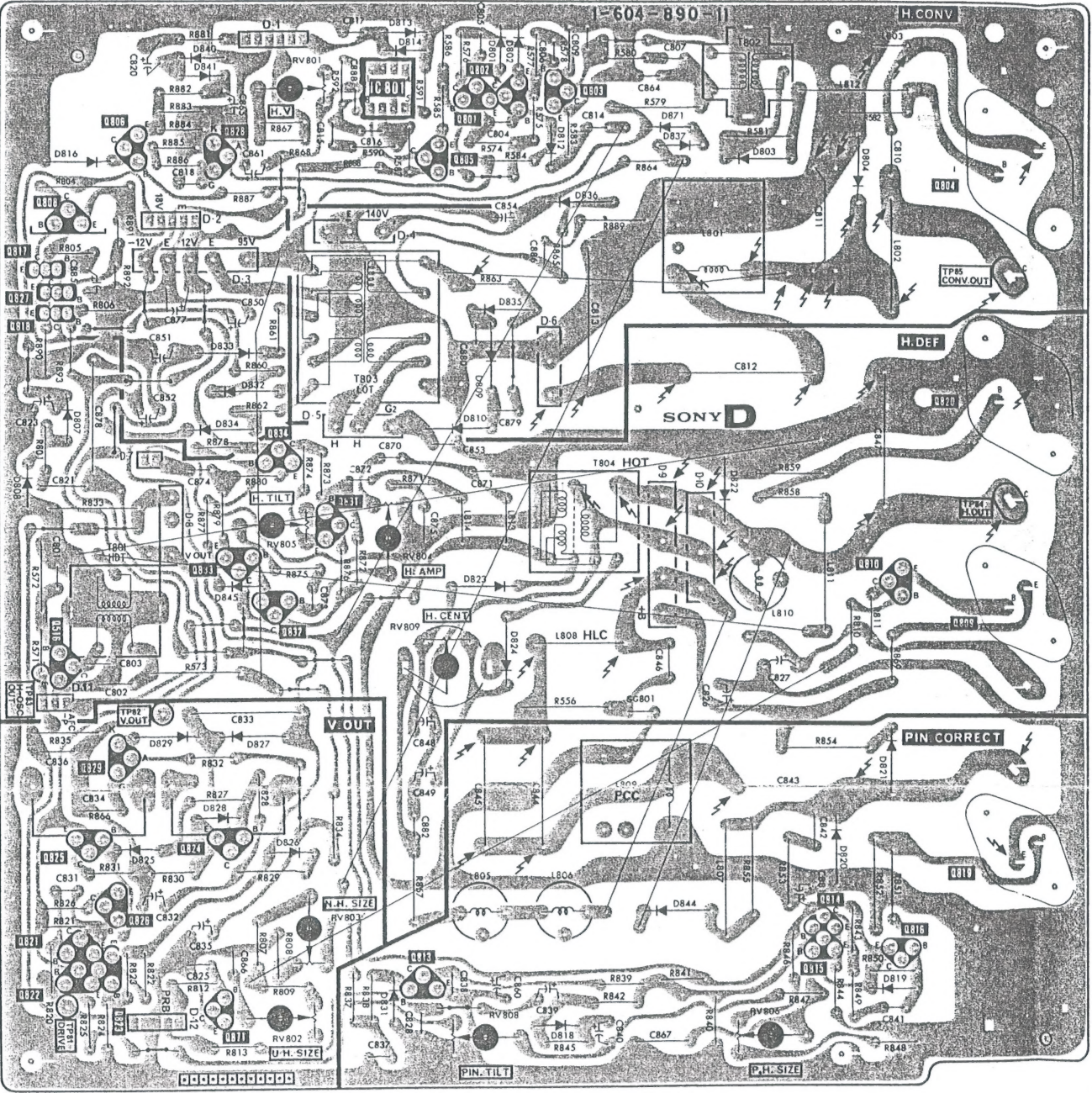




Q, IC	D
492	
493	
490 491 705	703
489	
494	
495 706	473
496	
484	
703	
483 485	
482	472



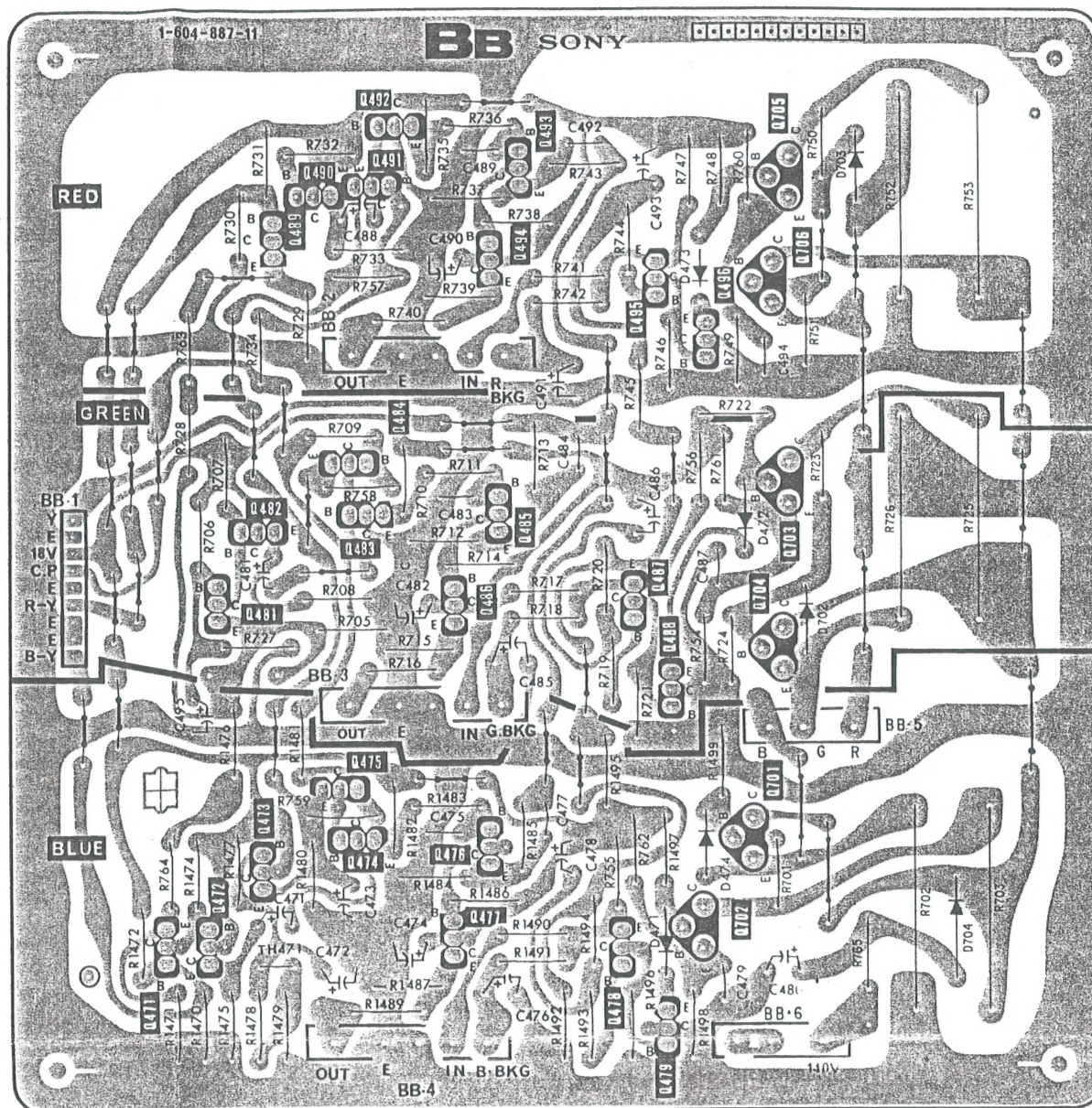
**D** [DC AMP, DEF.]  
[HV PROTECT]



Q, IC	D	ADJ
IC801	813	
801 802 803	801 802	RV801
	840	
	841	
	871	
806	812 837	
828	816 803	
805	804	
804	836	
808		
817		
827		
818	835	
	833	
	809	
820	832	
	807 810	
834		
	808 822	
831		RV805
833		RV804
810	845 823	
832	809	
516	824	RV809
	829 827	
829	821	
	828	
825 824	820	
	825 826	
819		
826	844	
821 815 816		RV803
823		
822 813	819	
871	831	
	818	RV802
		RV808
		RV806
Q, IC	D	ADJ



В В



Q, IC	D
492	
493	
490 491 705	703
489	
494	
495 706	473
496	
484	
703	
483 485	
482	472
481 486 487	
704	702
488	
475	
474 476 701	
473	474
702	704
471 472 477 478	471
479	
Q, IC	D

9-962-730-01

**Sony Corporation**  
**TV and Consumer Video Group**  
© 1981

81G0509-1  
Printed in Japan